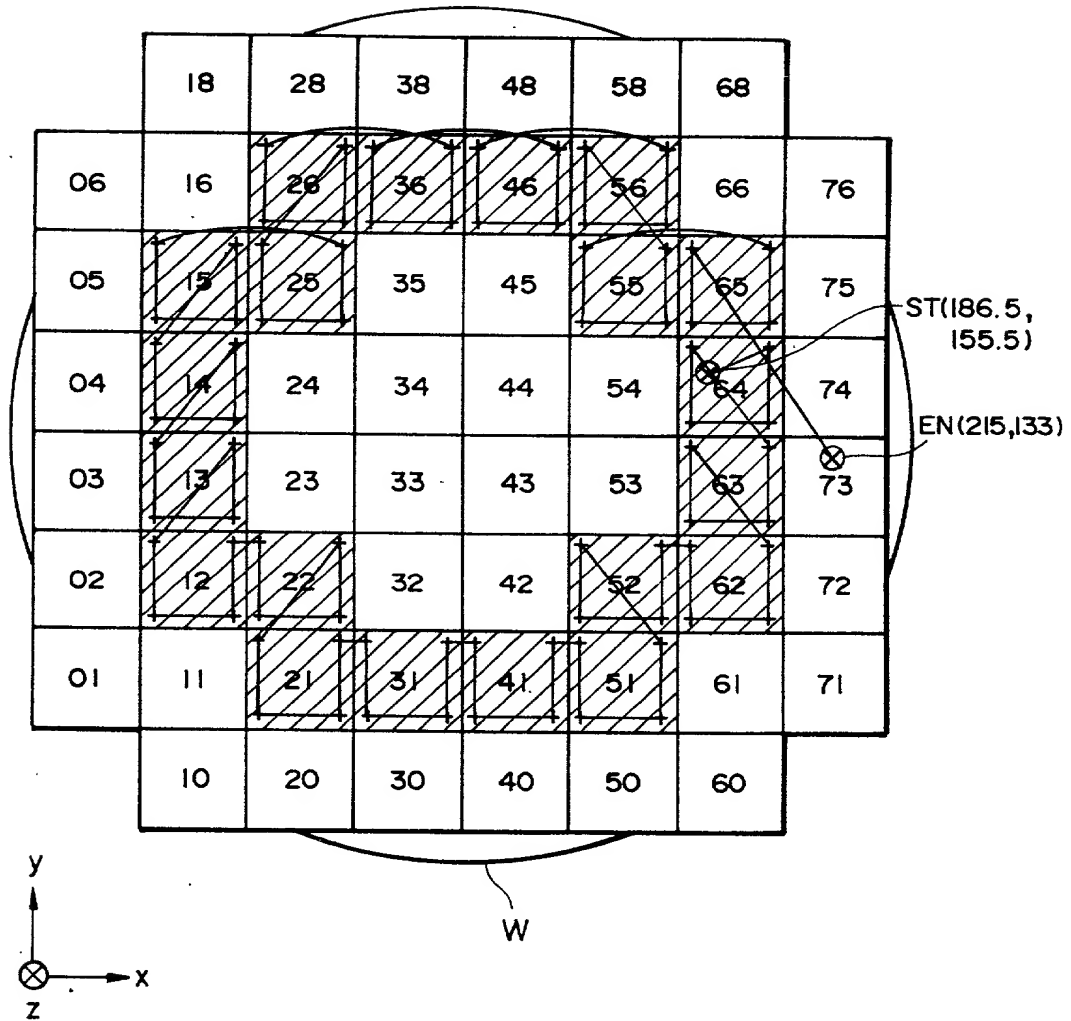


**Fig. 1**



**Fig. 2**

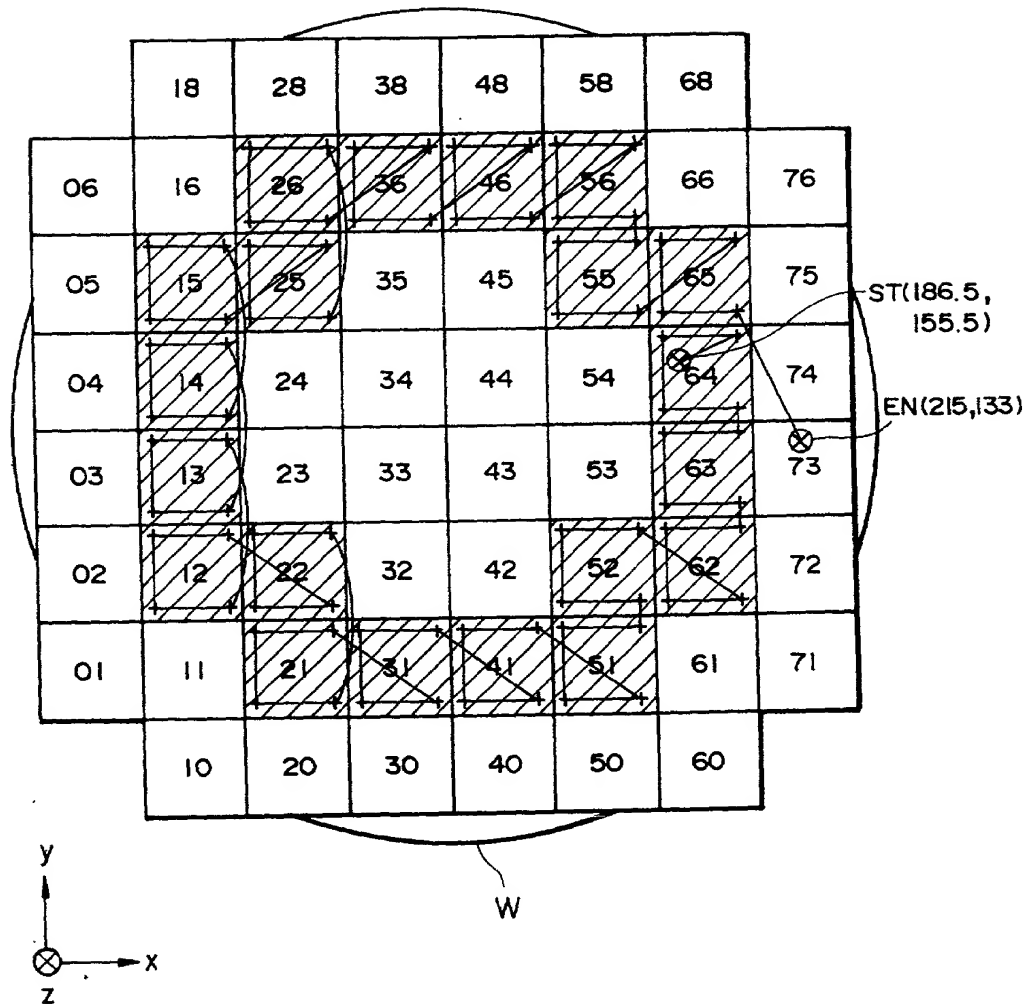
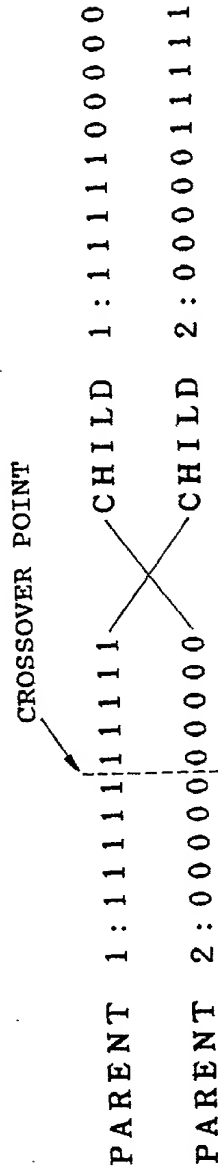
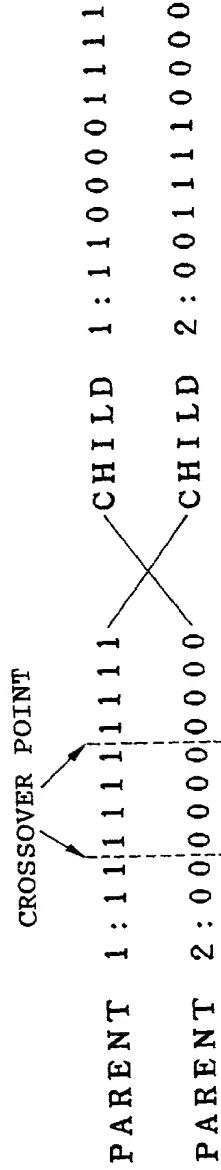


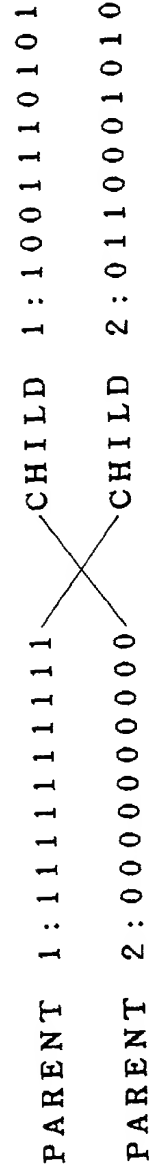
FIG. 3



**Fig.3**

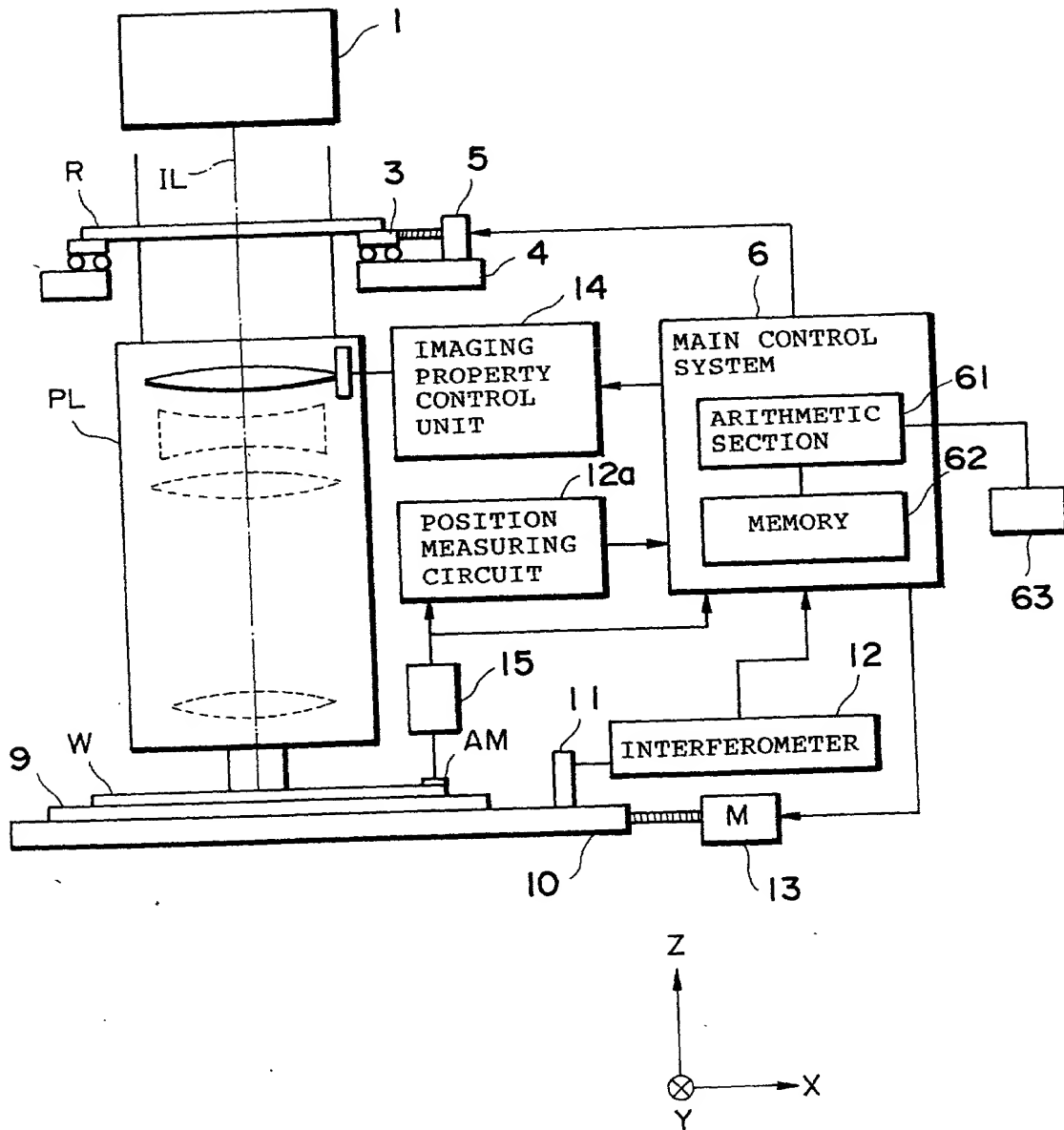


**Fig.4**



**Fig.5**

**Fig. 6**



**Fig. 7**

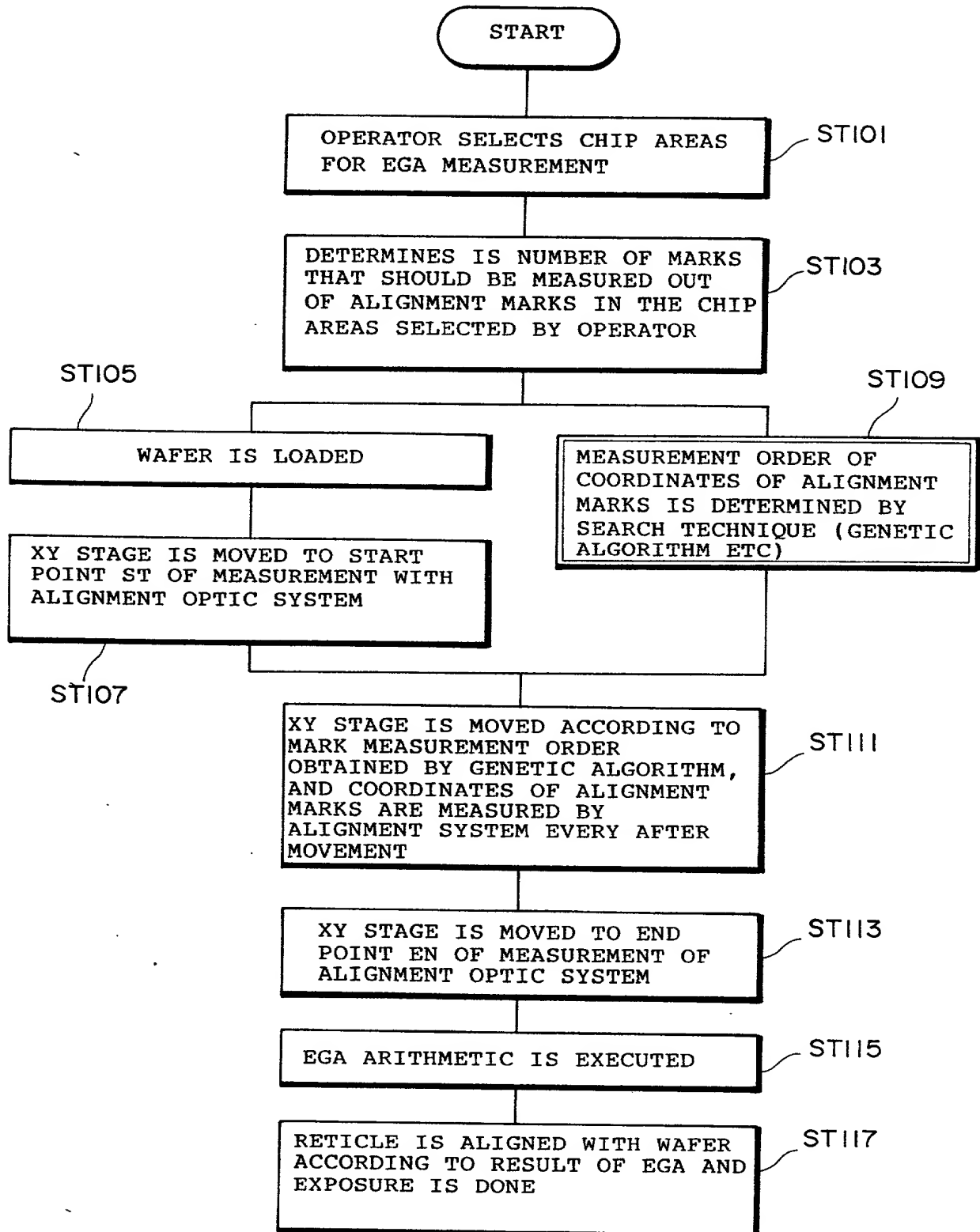


FIG. 7

**Fig.8**

ATTRIBUTE		VALUE OF PARAMETER SET IN EMBODIMENT
START POINT ST	X	186.5 (mm)
	Y	155.5 (mm)
END POINT EN	X	215 (mm)
	Y	133 (mm)
ACCELERATION OF WAFER STAGE 10	X	0.34 g
	Y	0.2 g
MAX SPEED OF WAFER STAGE 10	X	270 (mm/sec)
	Y	200 (mm/sec)
SETTLING TIME OF WAFER STAGE		0.032 (sec)
TIME NECESSARY FOR MEASURING COORDINATES OF ONE ALIGNMENT MARK		0.5 (sec)

g:ACCELERATION OF GRAVITY (=9.80m/sec)

**Fig.9**

CHIP AREA	COORDINATES OF CENTER	CHIP AREA	COORDINATES OF CENTER
12	(83, 105)	41	(149, 83)
13	(83, 127)	46	(149, 193)
14	(83, 149)	51	(171, 83)
15	(83, 171)	52	(171, 105)
21	(105, 83)	55	(171, 171)
22	(105, 105)	56	(171, 193)
25	(105, 171)	62	(193, 105)
26	(105, 193)	63	(193, 127)
31	(127, 83)	64	(193, 149)
36	(127, 193)	65	(193, 171)

TABLE 9

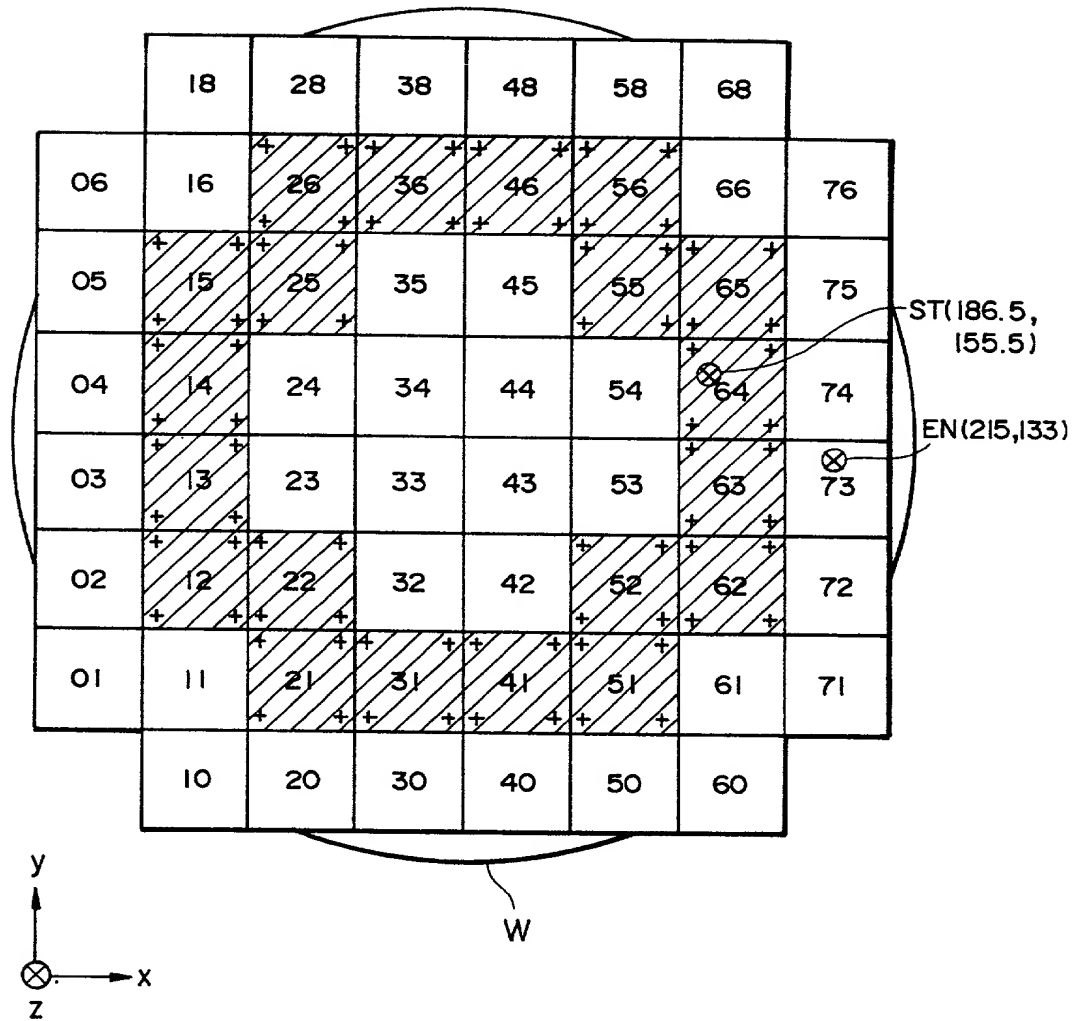
START	12(1)	12(2)	12(3)	12(4)	13(1)	13(2)
12(1)	0.378296	X	0.109449	0.132981	0.142	0.142
12(2)	0.45237	X	0.132981	0.132981	0.142	0.142
12(3)	0.45237	0.132981	X	0.109449	0.242	0.242
12(4)	0.378296	0.132981	0.109449	X	0.242	0.242
13(1)	0.378296	0.142	0.242	0.242	X	0.109449
13(2)	0.45237	0.142	0.242	0.242	0.109449	X
...	...	...	...	...	...	...
64(3)	0.123721	0.36533	0.439407	0.439407	0.365333	0.439407
64(4)	0.123721	0.439407	0.513481	0.439407	0.439407	0.513481
65(1)	0.1595	0.439407	0.513481	0.462	0.439407	0.513481
65(2)	0.1595	0.36533	0.439407	0.462	0.365333	0.439407
65(3)	0.084955	0.36533	0.439407	0.365333	0.365333	0.439407
65(4)	0.102346	0.439407	0.513481	0.439407	0.439407	0.513481
END	X	0.483852	0.557926	0.483852	0.483852	0.557926

(UNIT: SEC)

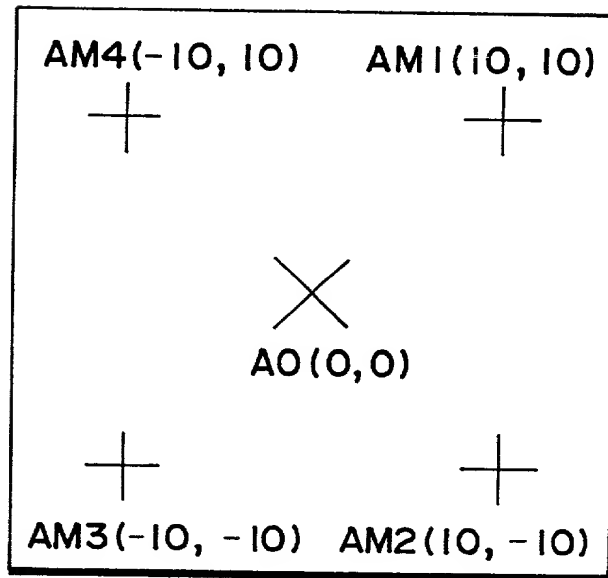
Fig. 10

64(3)	64(4)	65(1)	65(2)	65(3)	65(4)
0.365333	0.439407	0.439407	0.365333	0.365333	0.439407
0.439407	0.513481	0.513481	0.439407	0.439407	0.513481
0.439407	0.513481	0.513481	0.462	0.439407	0.513481
0.365333	0.439407	0.462	0.462	0.365333	0.439407
0.365333	0.439407	0.439407	0.365333	0.365333	0.439407
0.439407	0.513481	0.513481	0.439407	0.439407	0.513481
...	...	...	...	...	...
X	0.109449	0.242	0.242	0.242	0.142
0.109449	X	0.242	0.242	0.142	0.142
0.242	0.242	X	0.109449	0.132981	0.132981
0.242	0.242	0.109449	X	0.132981	0.132981
0.142	0.142	0.132981	0.132981	X	0.109449
0.142	0.142	0.132981	0.132981	0.109449	X
0.150519	0.091992	0.272	0.272	0.172	0.172

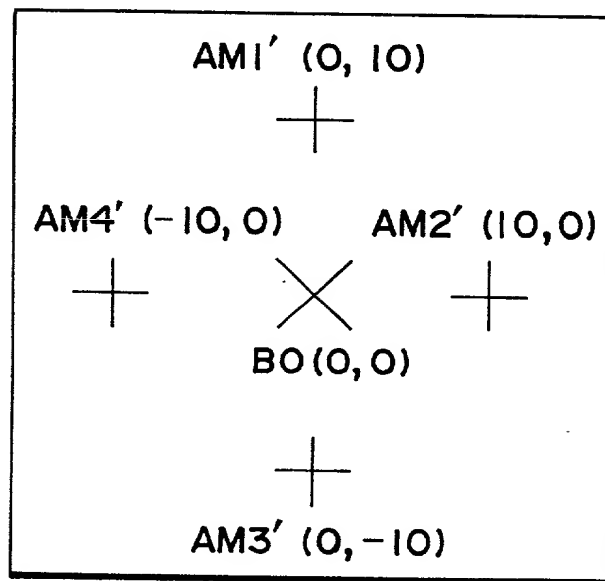
**Fig. 11**



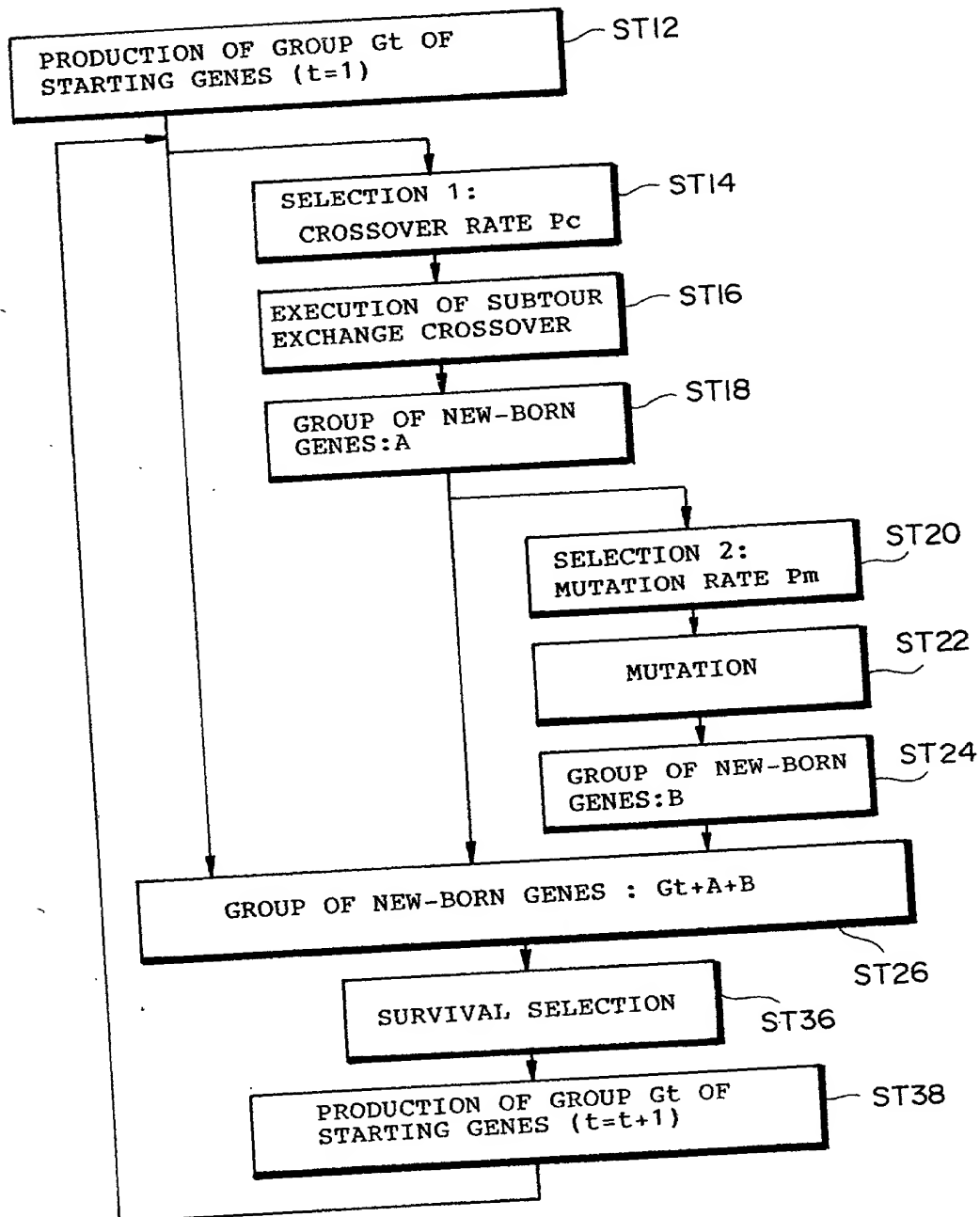
**Fig. 12**



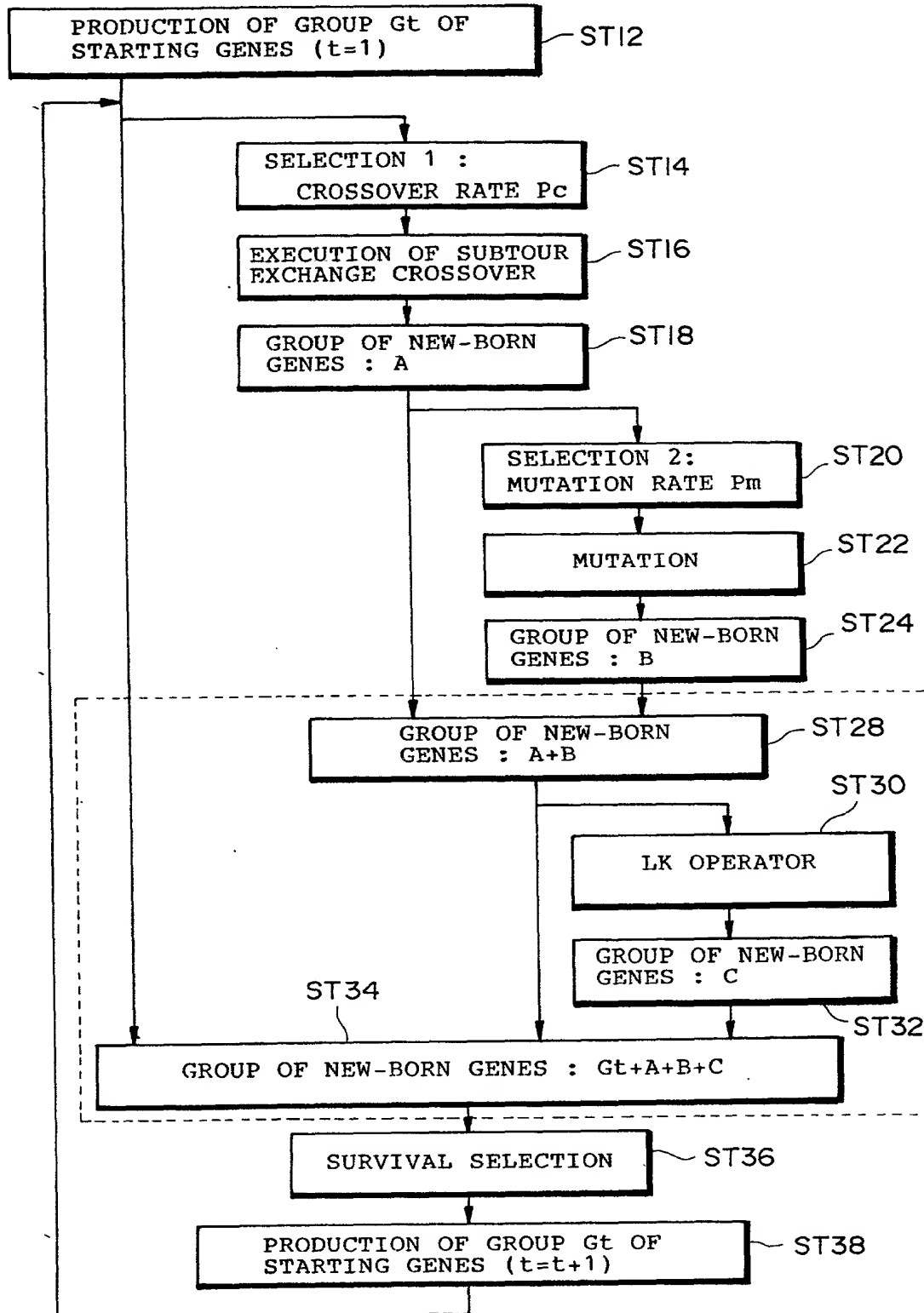
**Fig. 13**



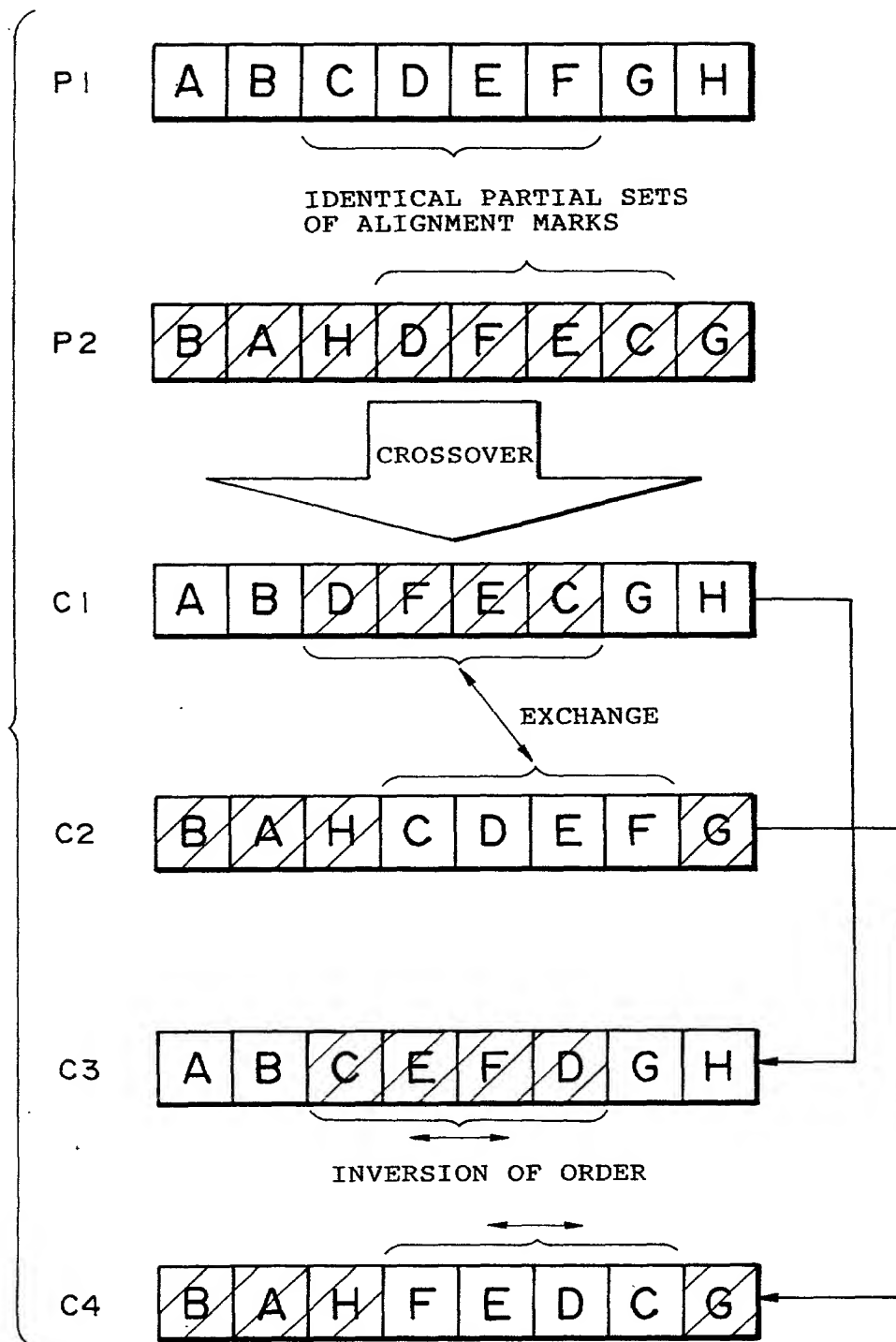
**Fig. 14**



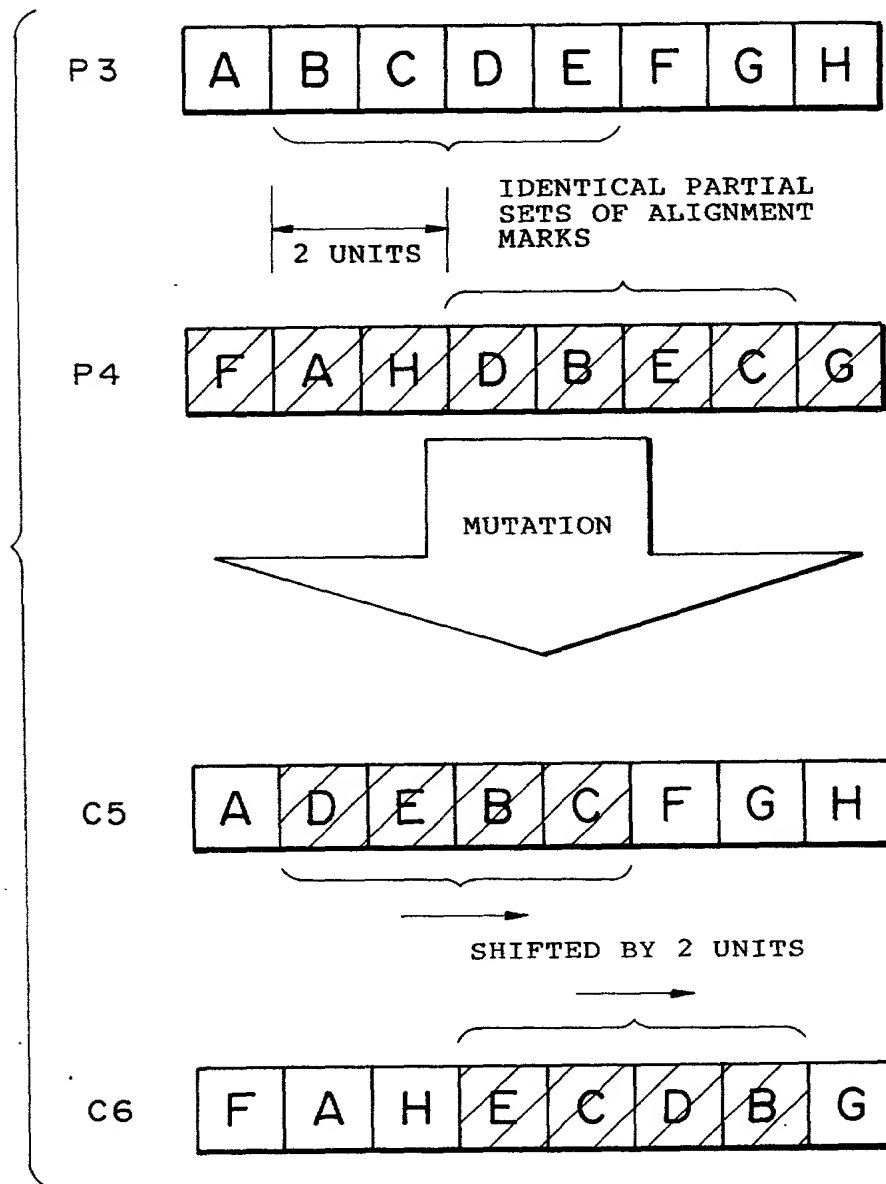
**Fig. 15**



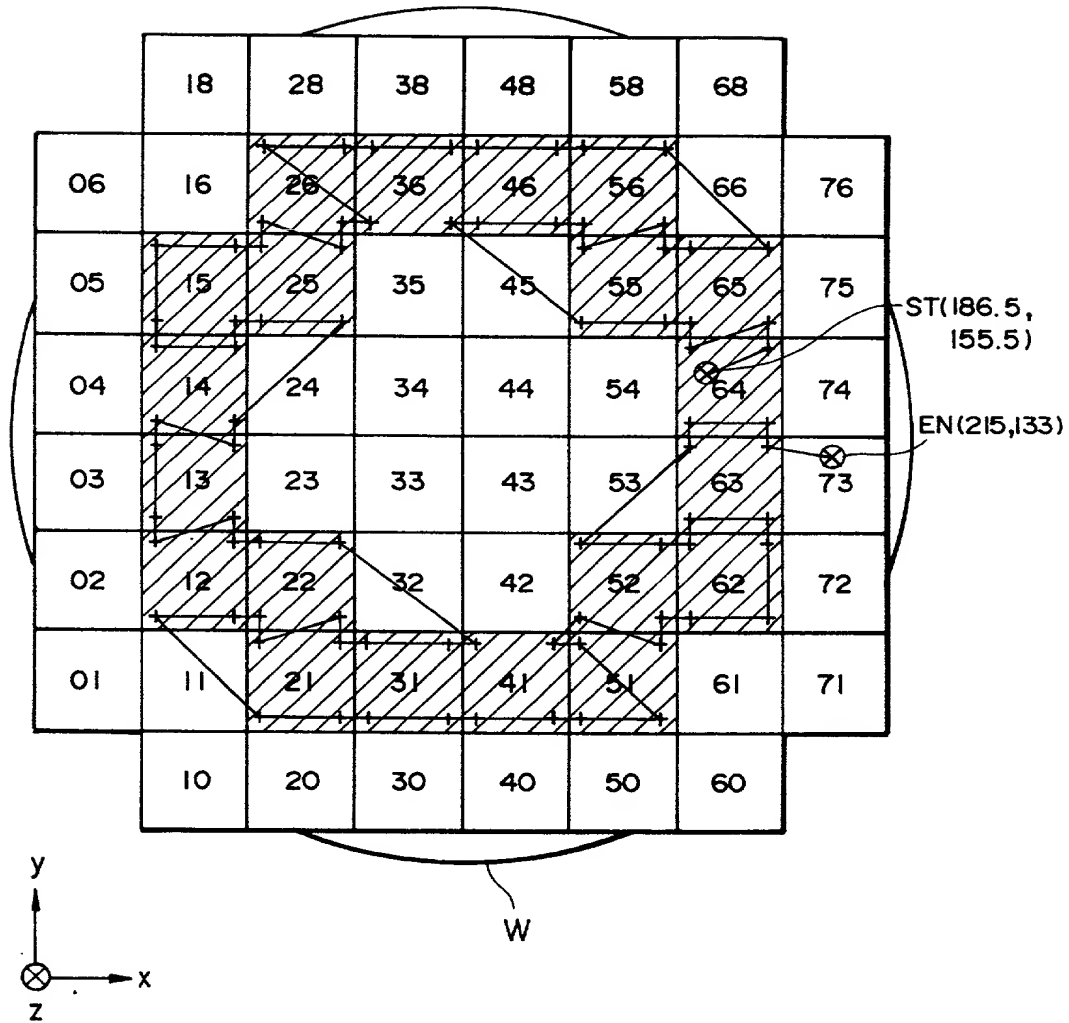
**Fig. 16**



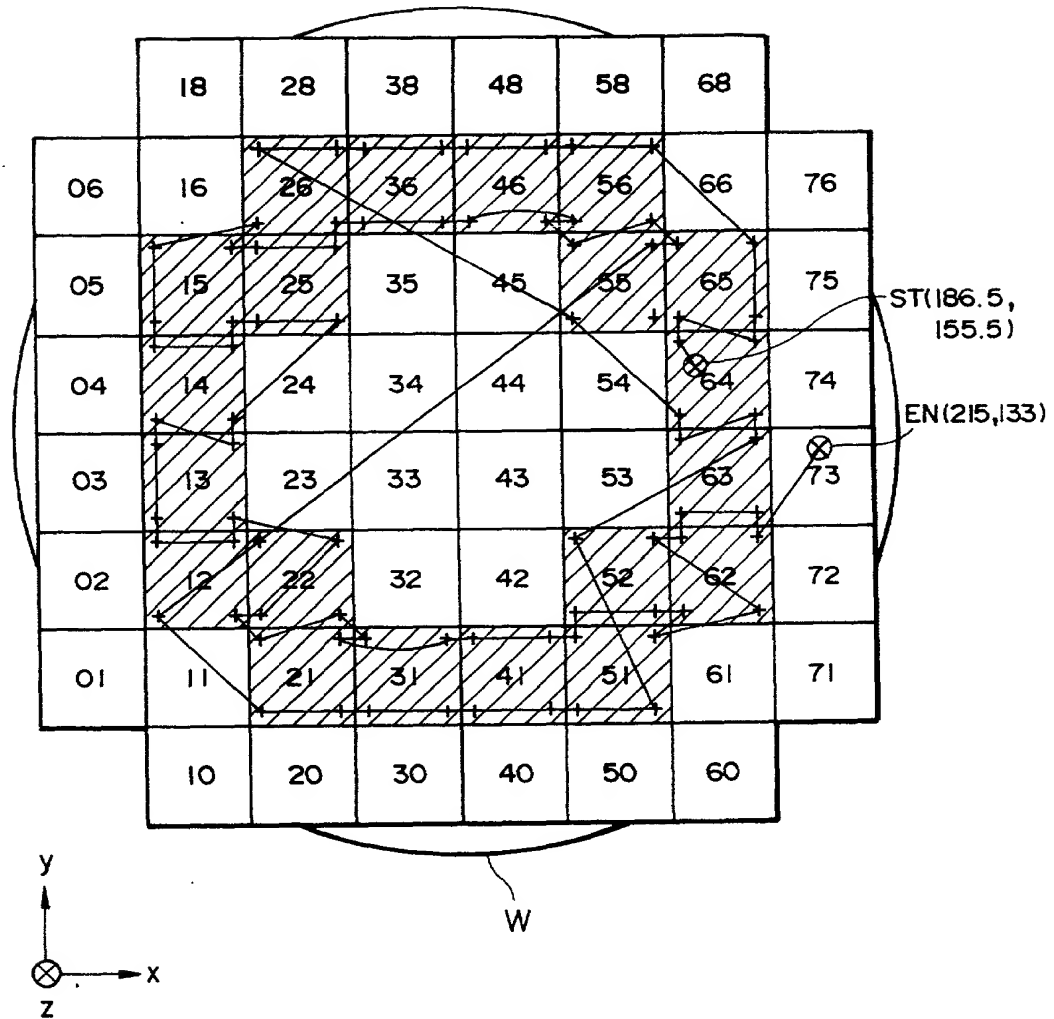
**Fig. 17**



**Fig. 18**



**Fig. 19**



**Fig.20**

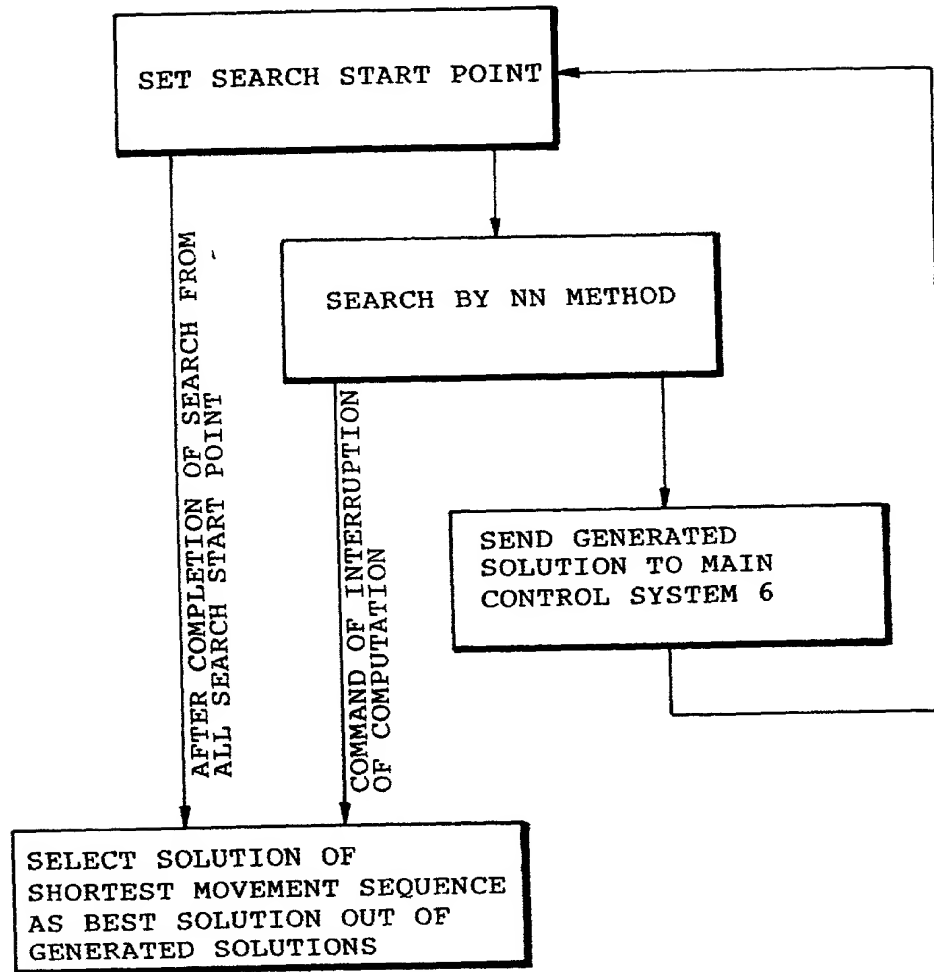
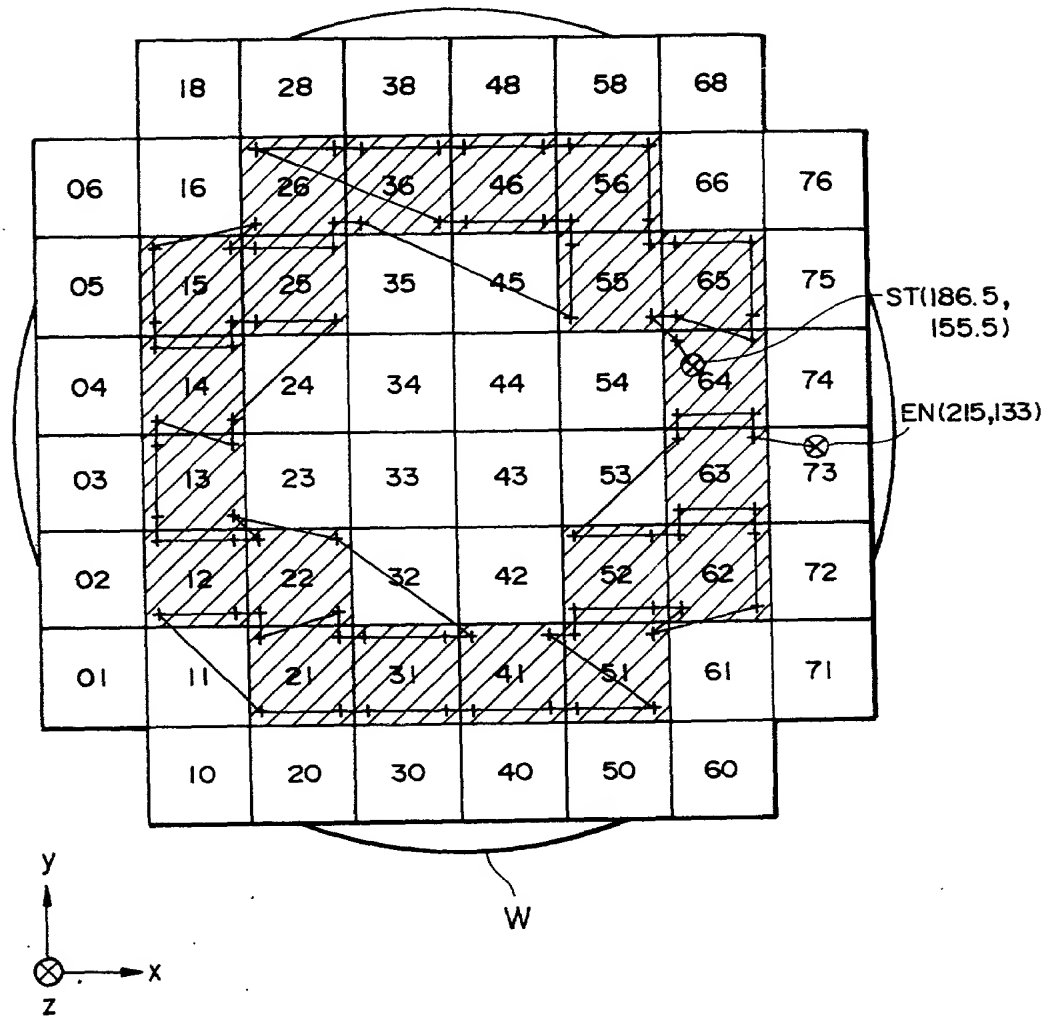


FIG. 20

**Fig.21**



**Fig.22**

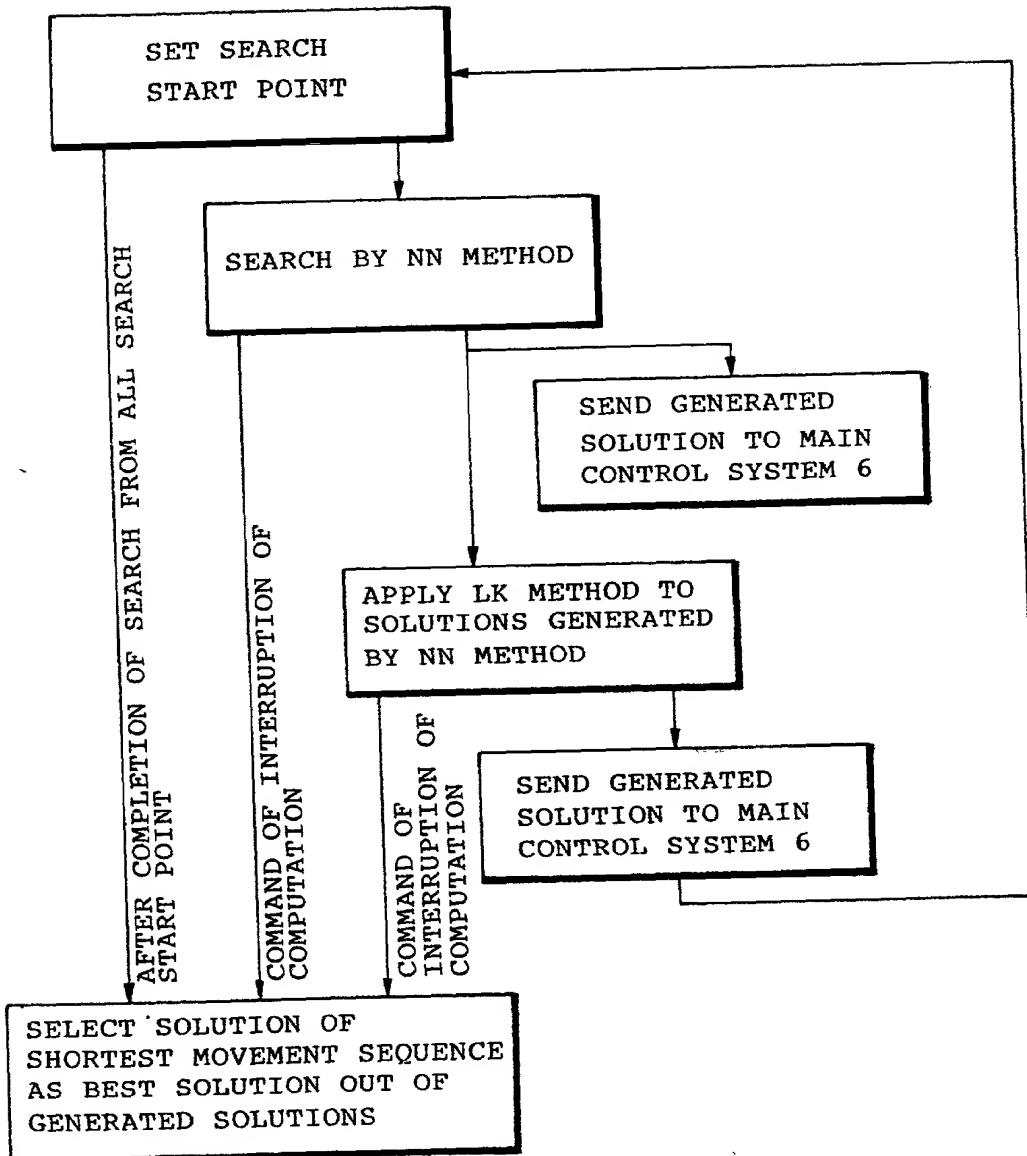


FIG. 22

Fig.23

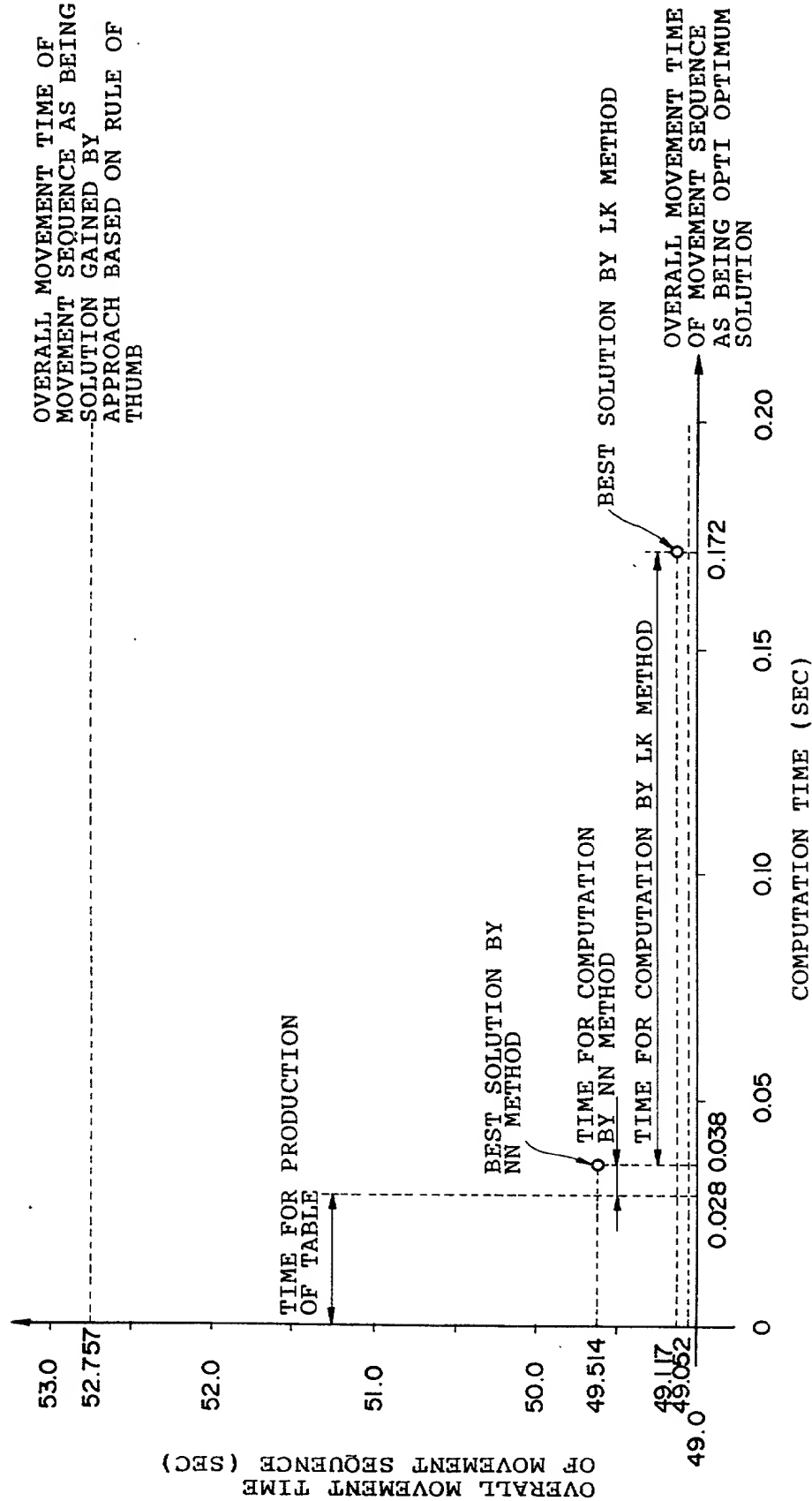


Fig. 24

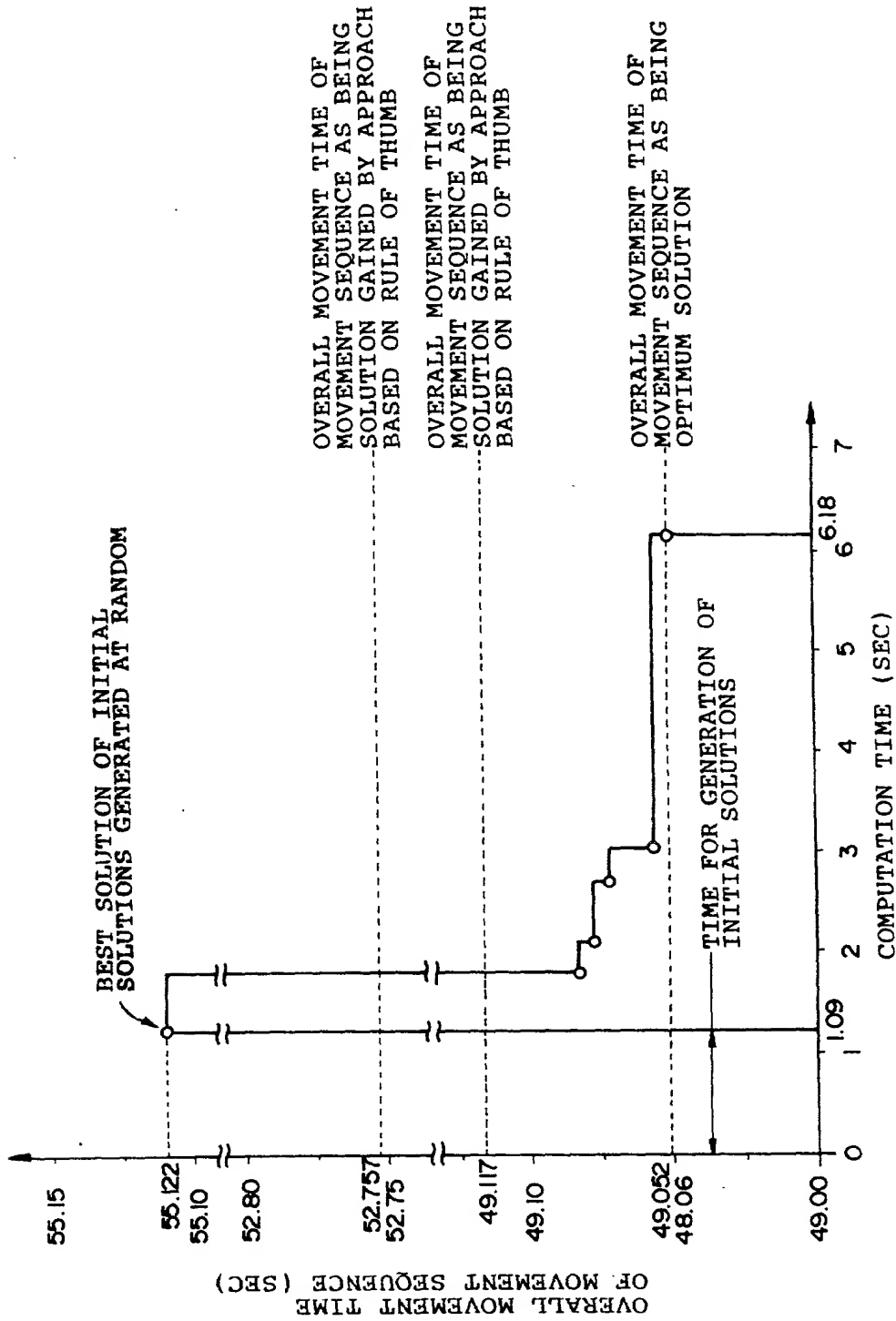
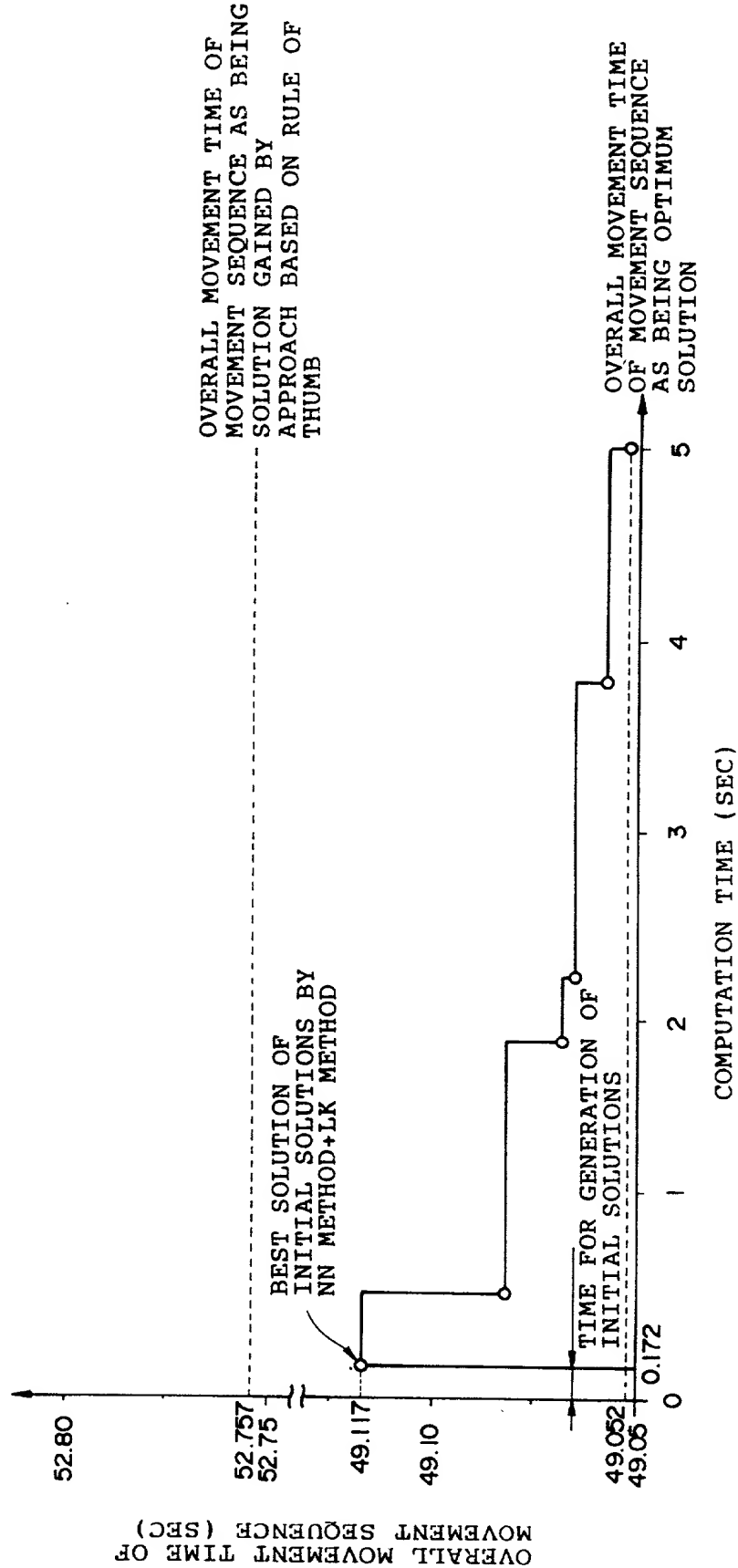
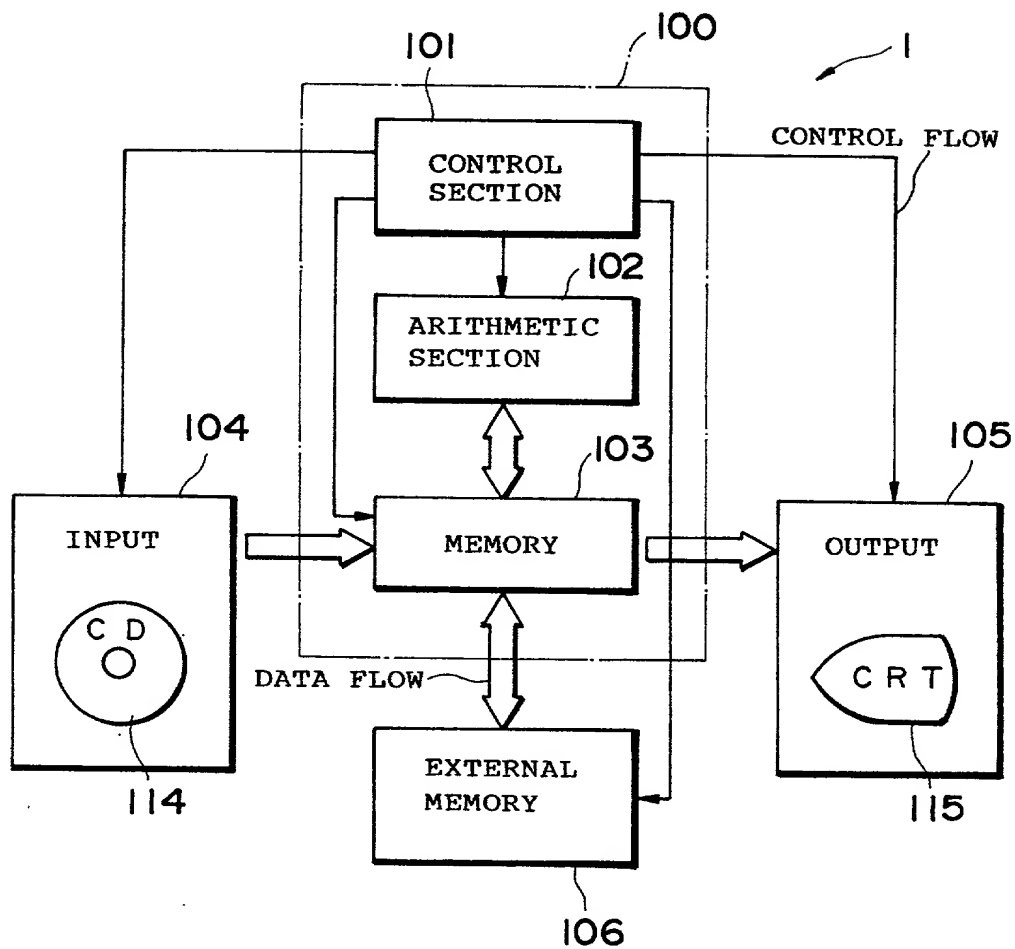


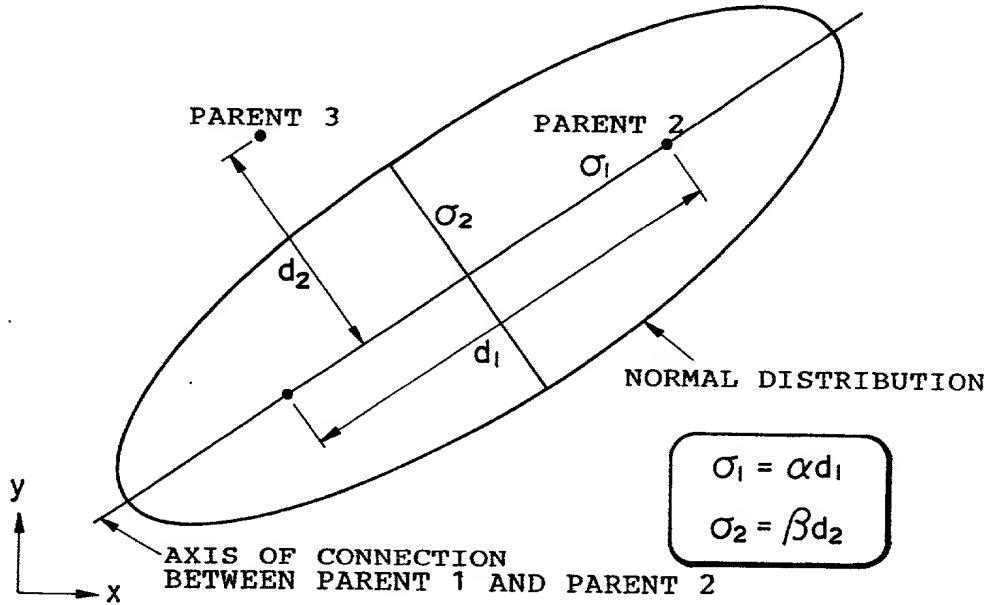
Fig.25



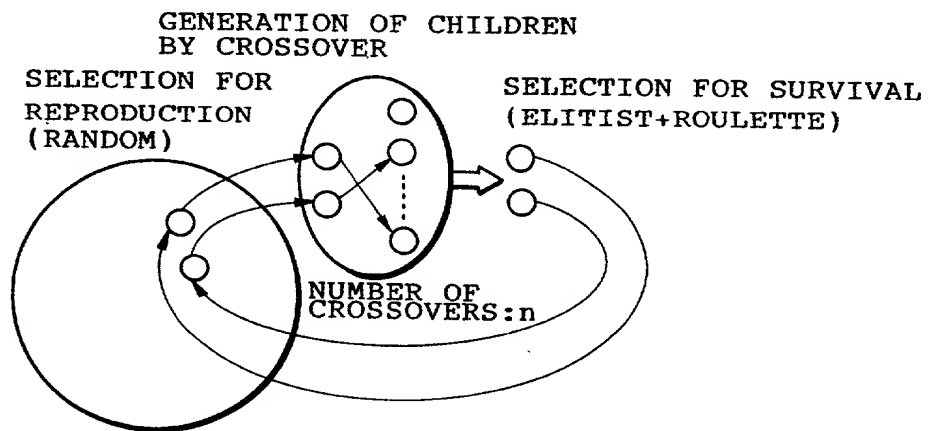
*Fig.26*



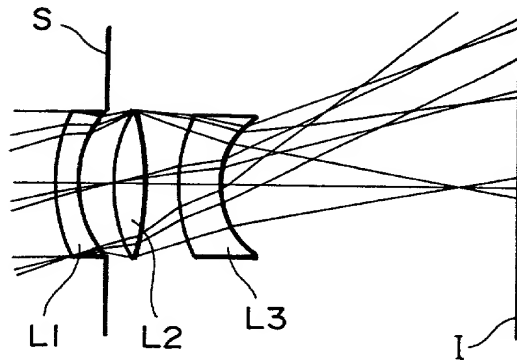
**Fig. 27**



**Fig. 28**



**Fig.29**



**Fig.30**

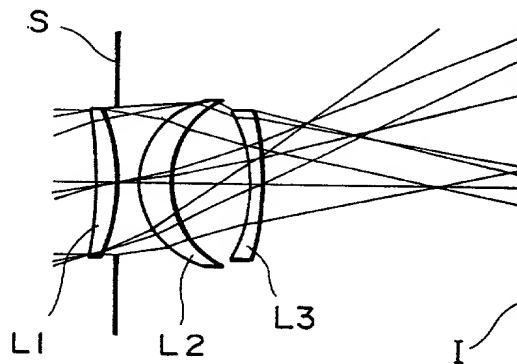


Fig.31

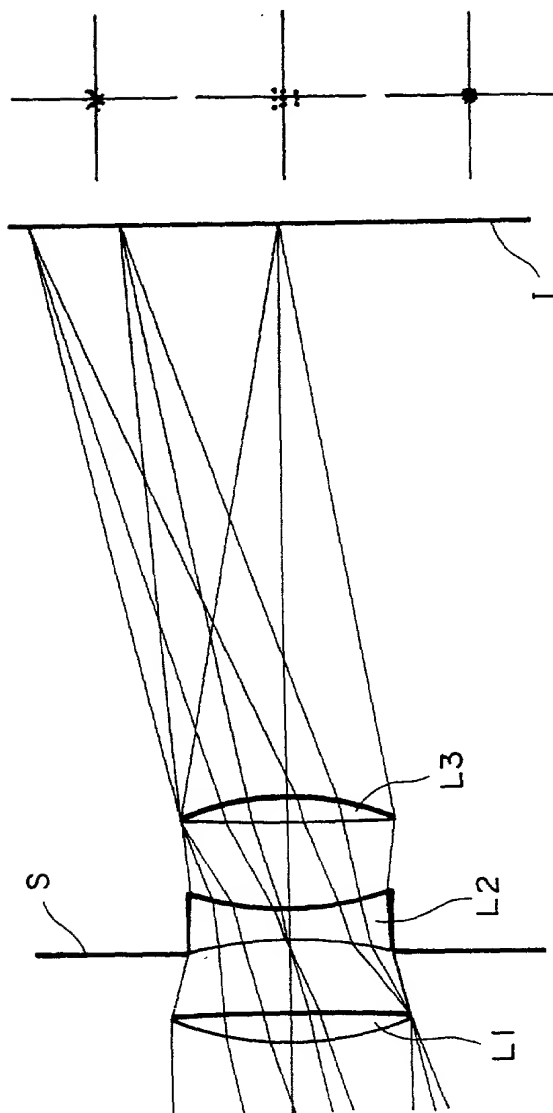
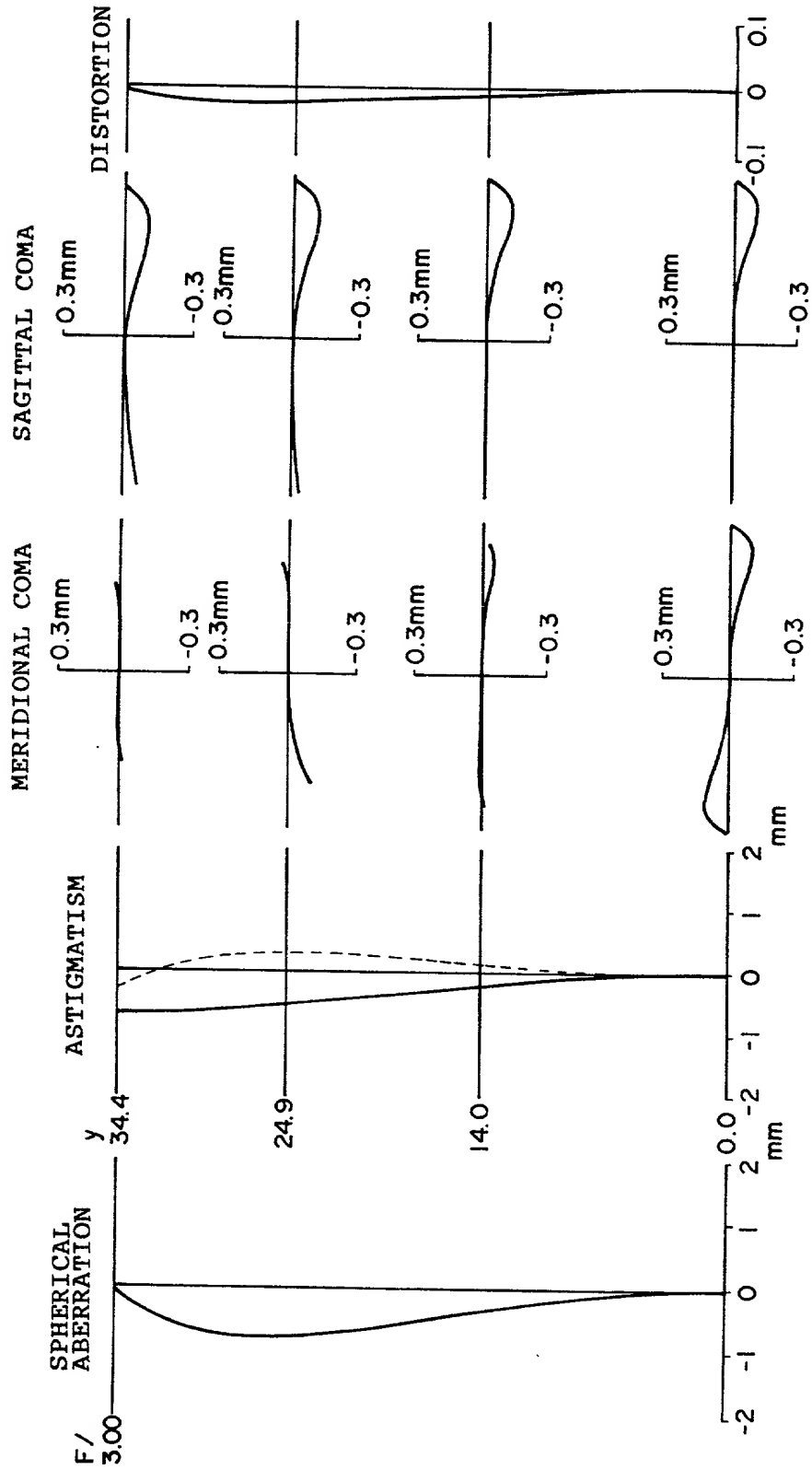


Fig.32



**Fig. 33**

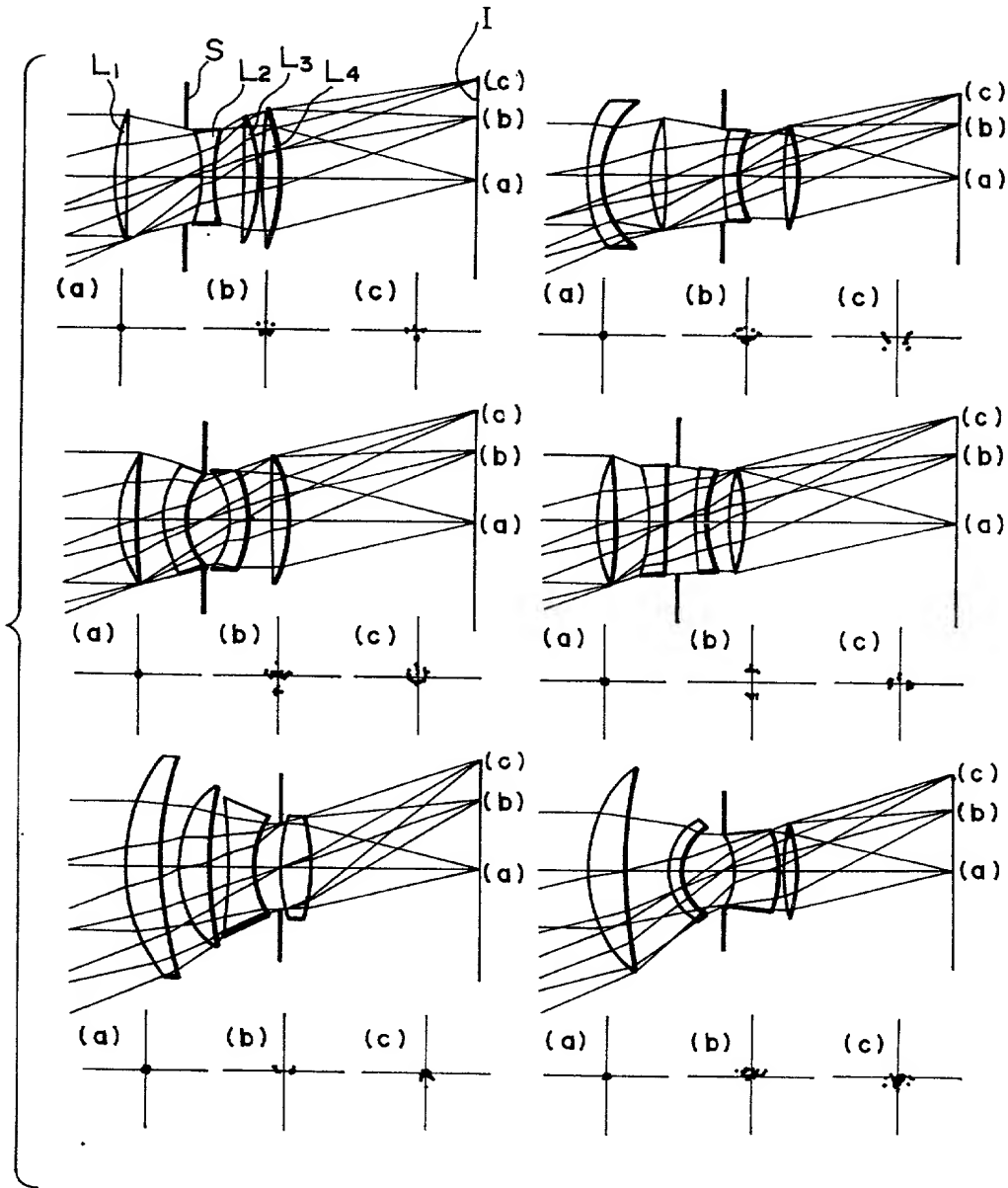
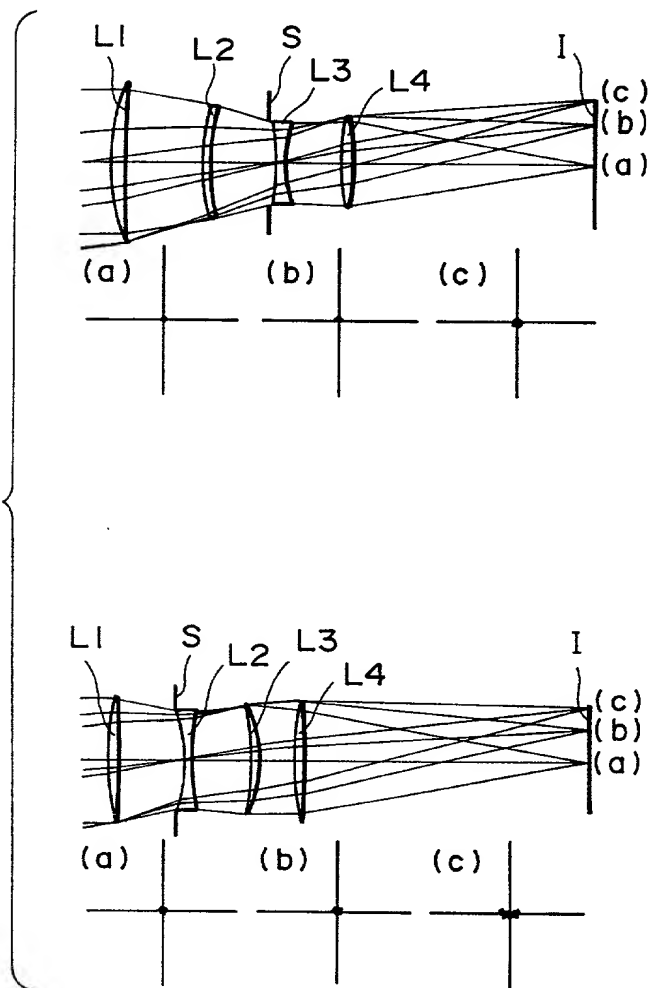


FIG. 33

**Fig.34**



**Fig. 35**

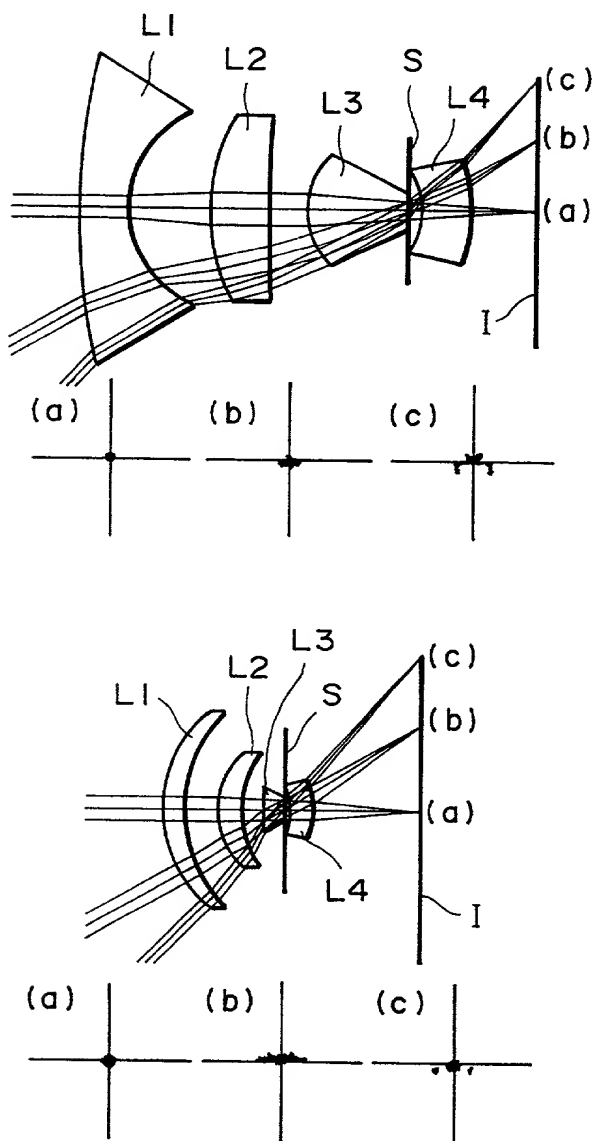


Fig. 36

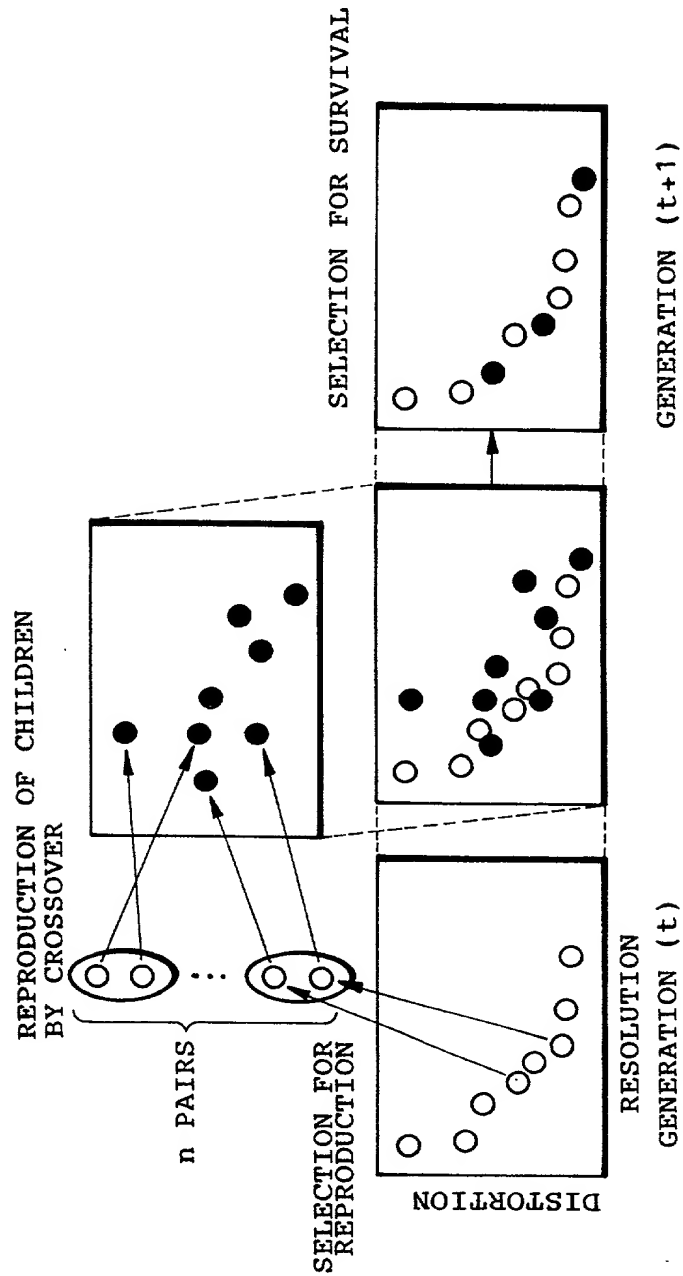


Fig. 37

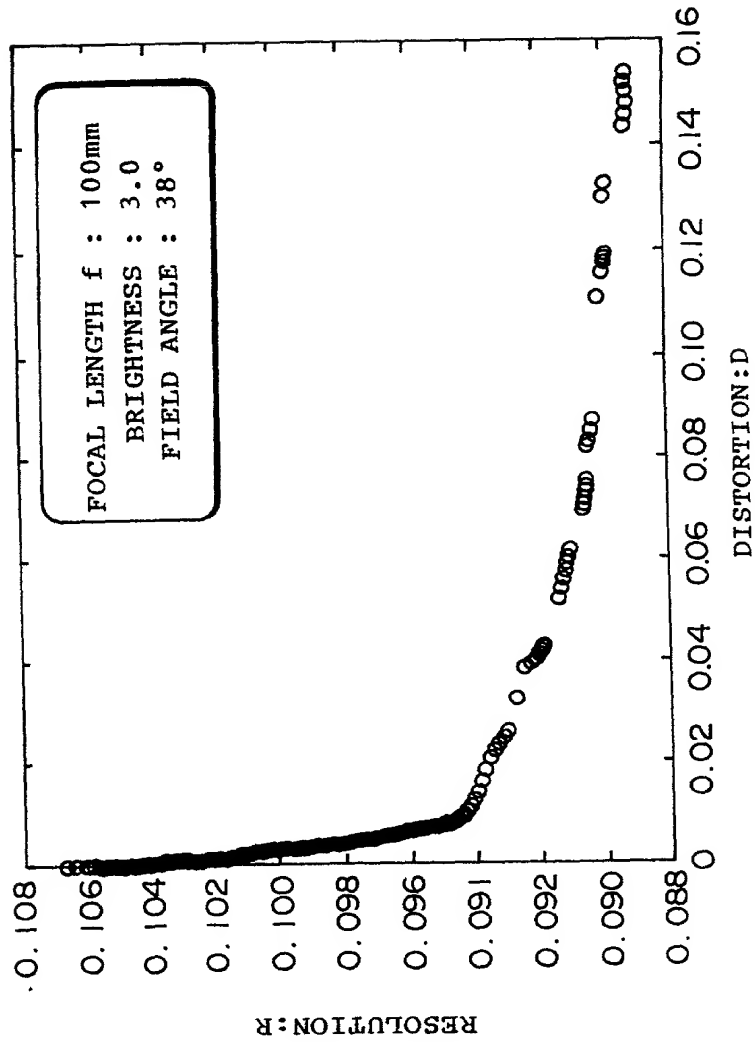
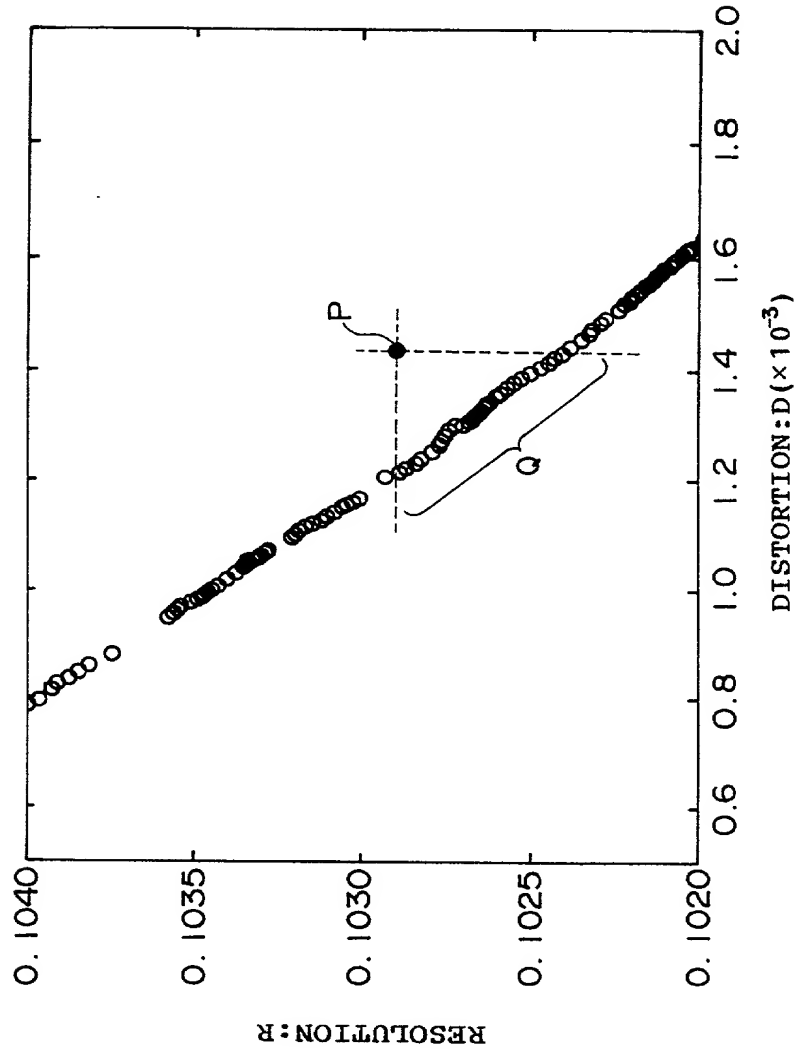
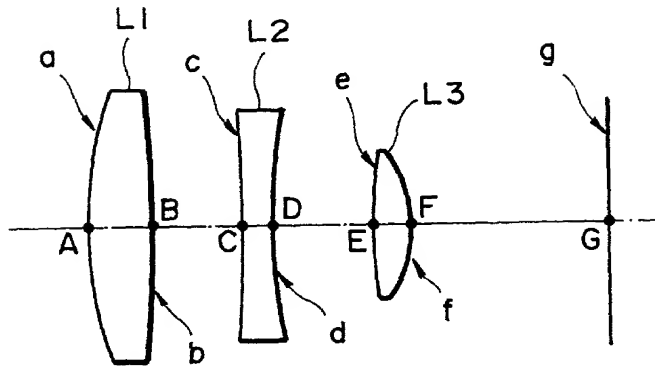


Fig. 38



**Fig. 39**

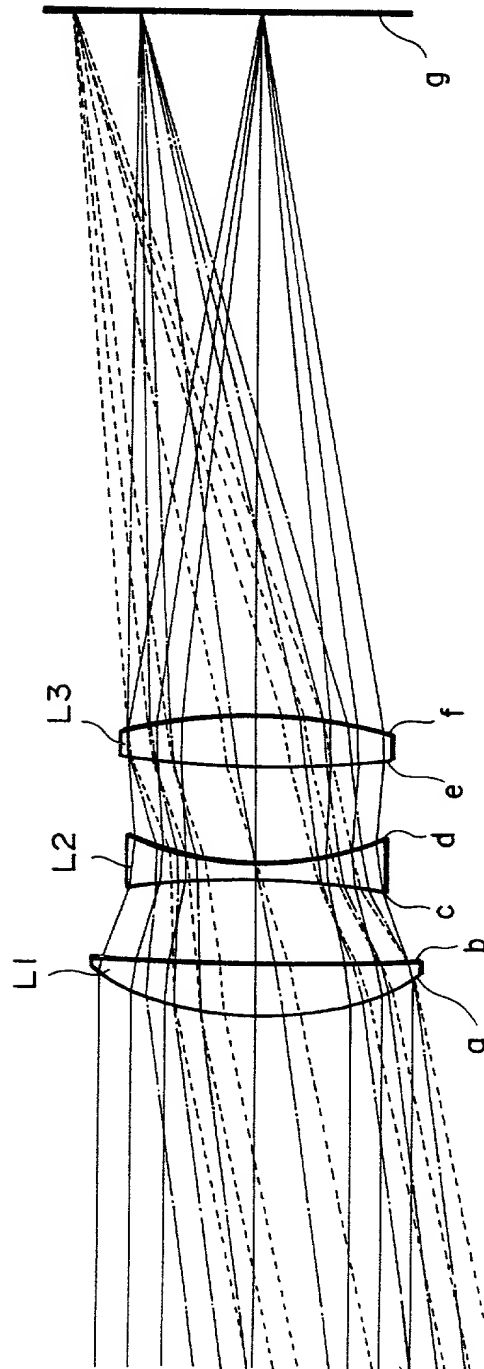


**Fig. 41**

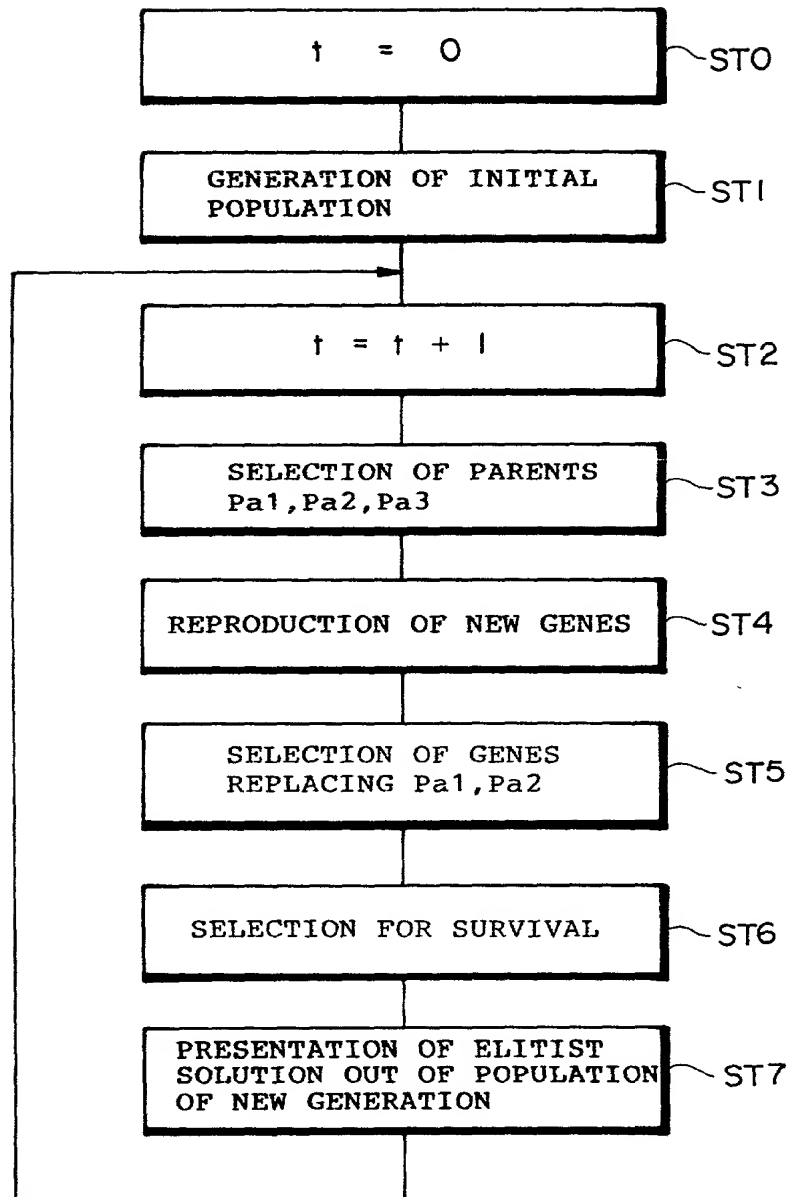
GENE  
REPRESENTATION:

a	b	c	d	e	d1	d2	d3	d4	d5
---	---	---	---	---	----	----	----	----	----

*Fig. 40*



**Fig. 42**



**Fig. 43**

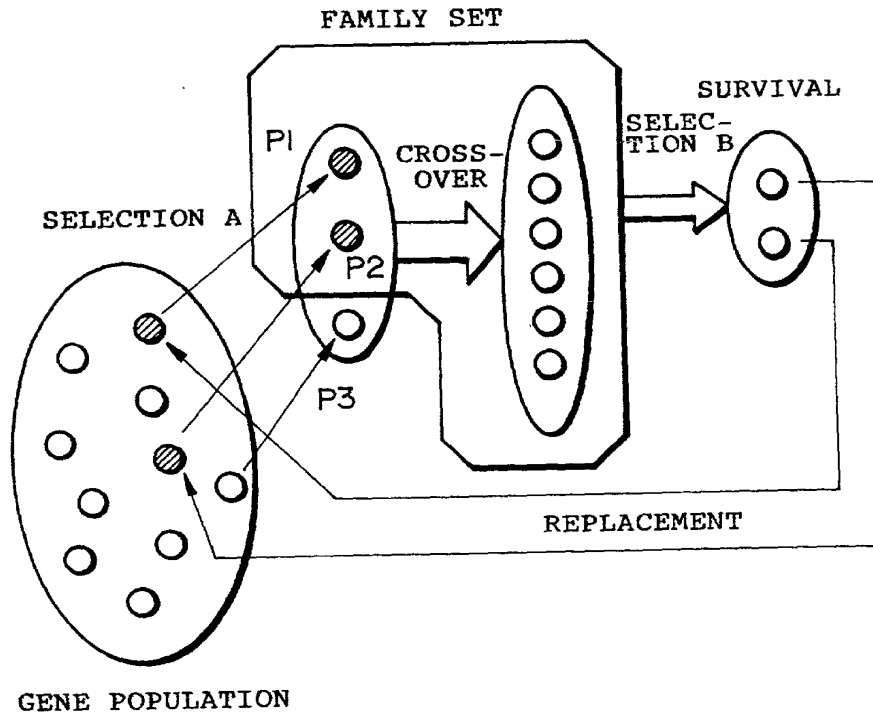
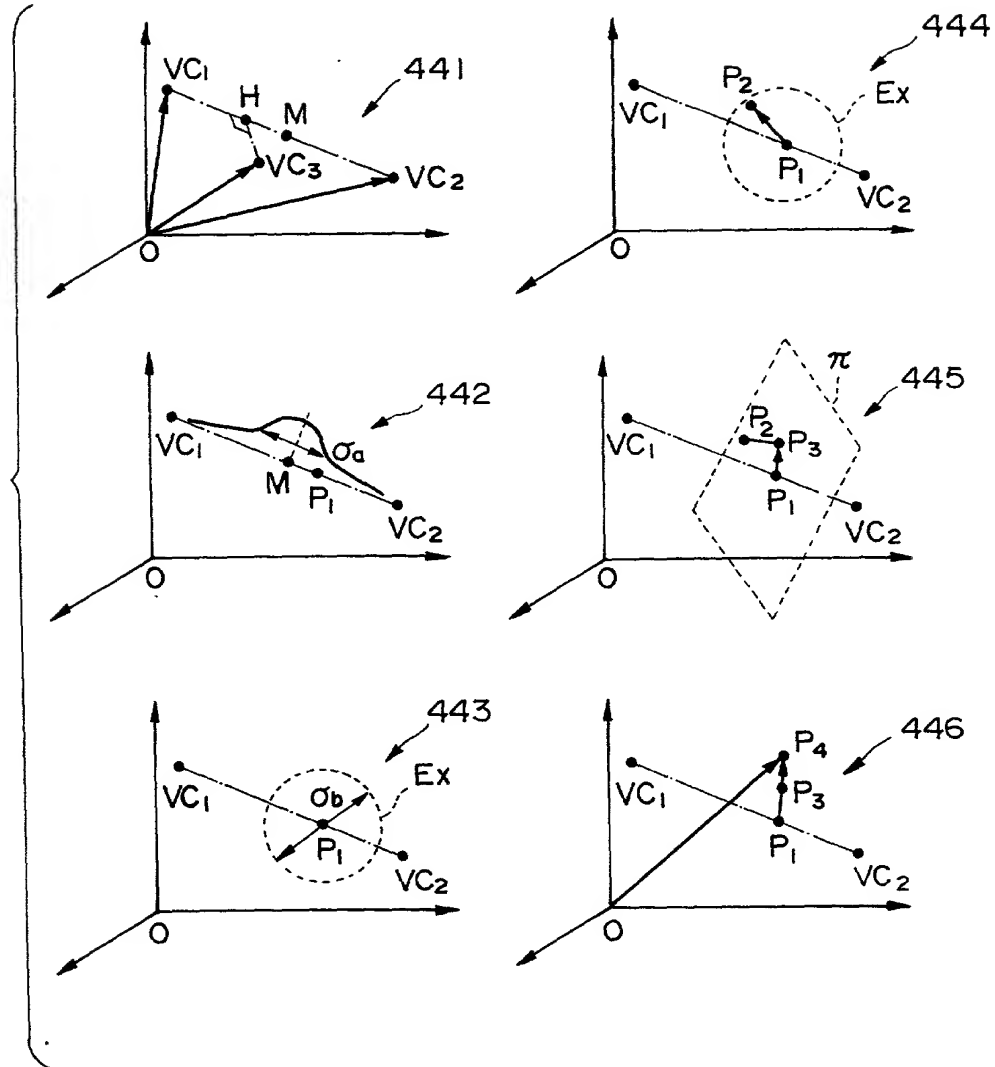
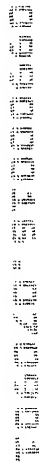
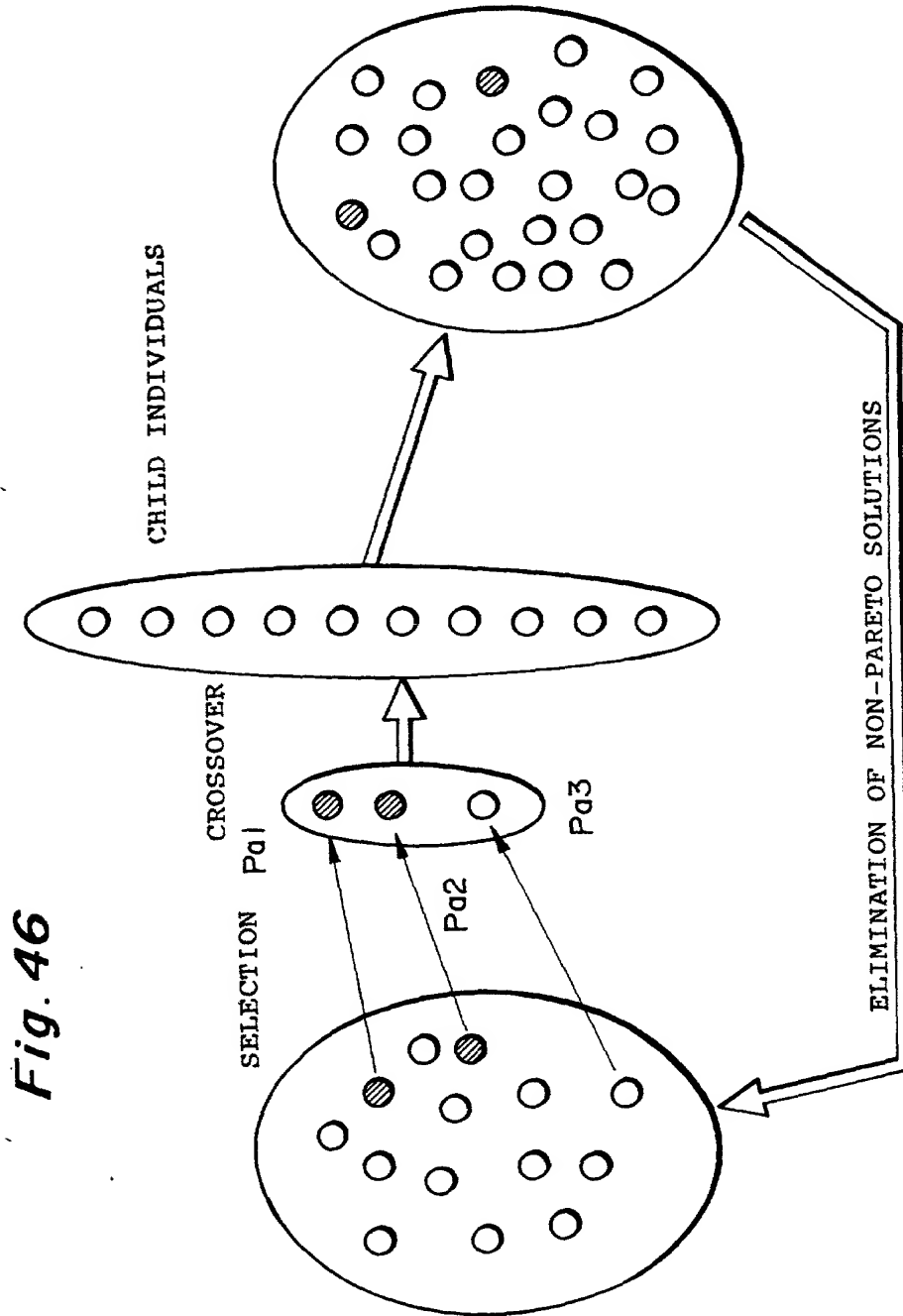


FIG. 43

**Fig. 44**



[illegible]



*Fig. 47*

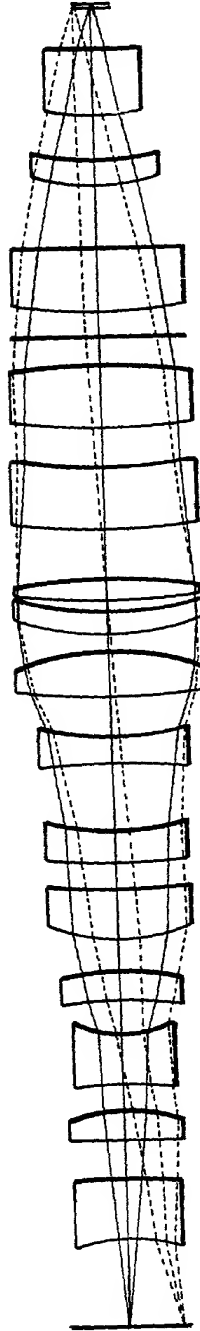
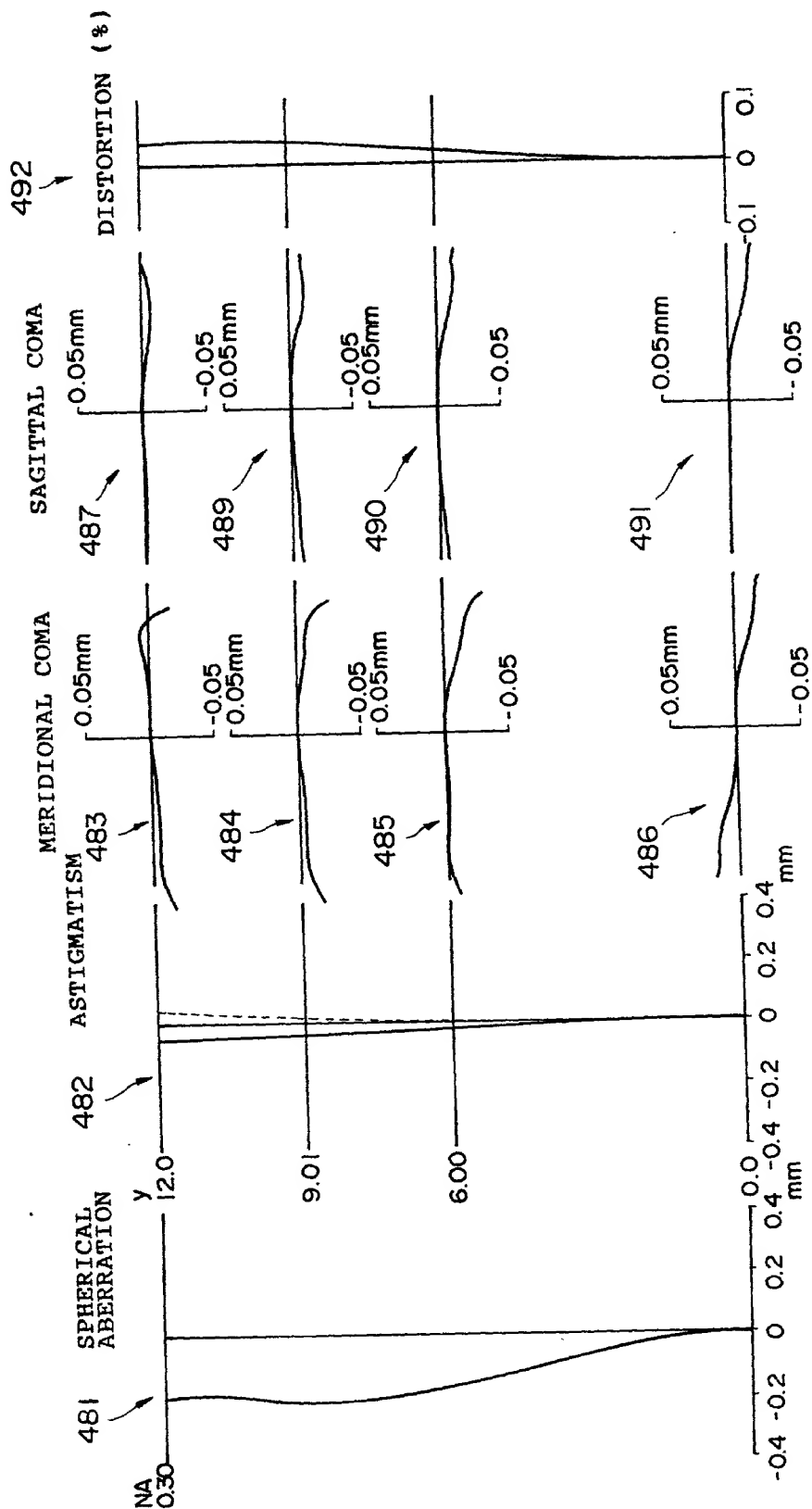


Fig. 48



*Fig. 49*

